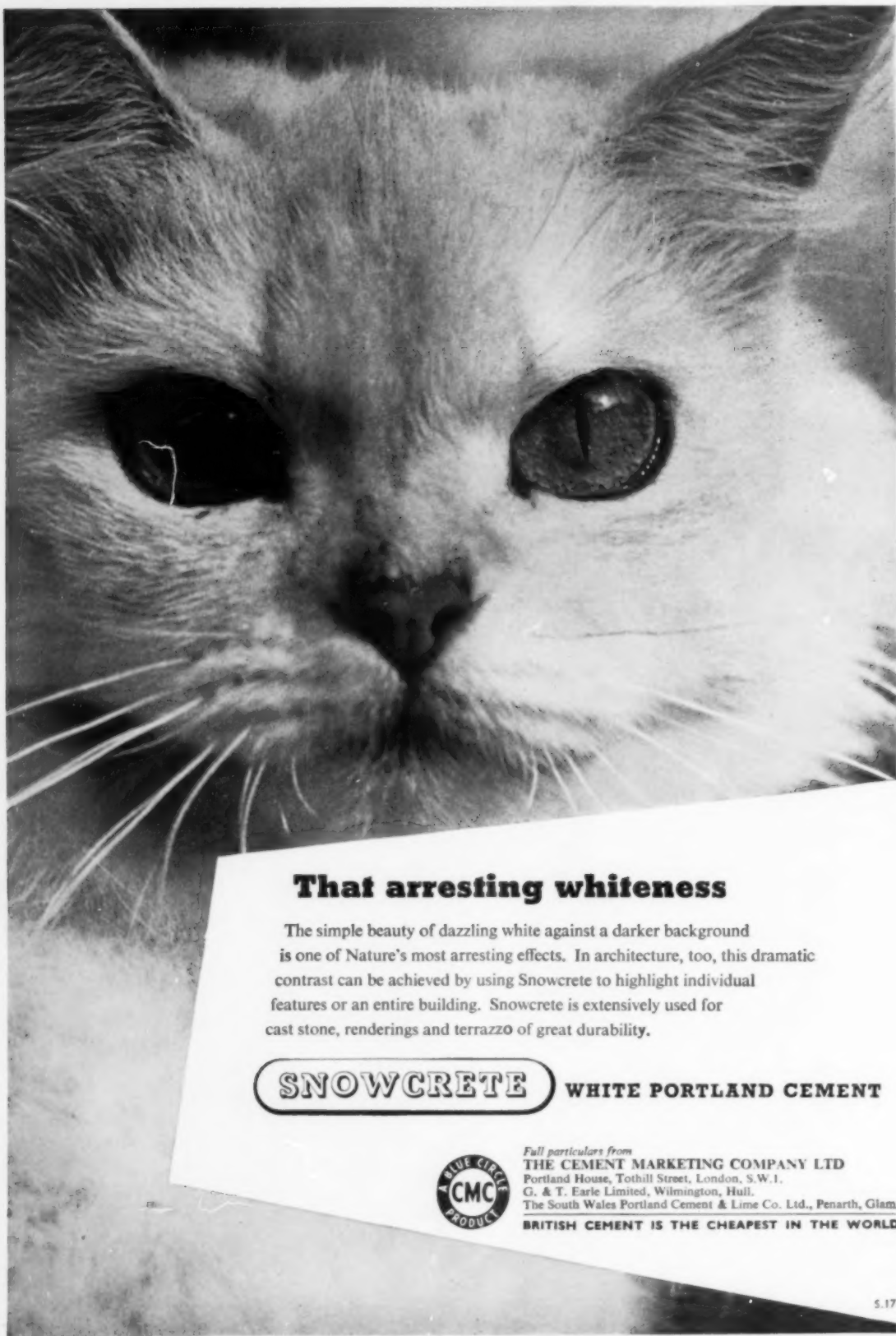


# THE ARCHITECT & BUILDING NEWS

4 AUGUST 1955 · VOL. 208 · NO. 5 · ONE SHILLING WEEKLY

- ST. PAUL'S CRAY HEALTH CENTRE
- FLATS IN SWEDEN
- SHOP CONVERSION, CROYDON

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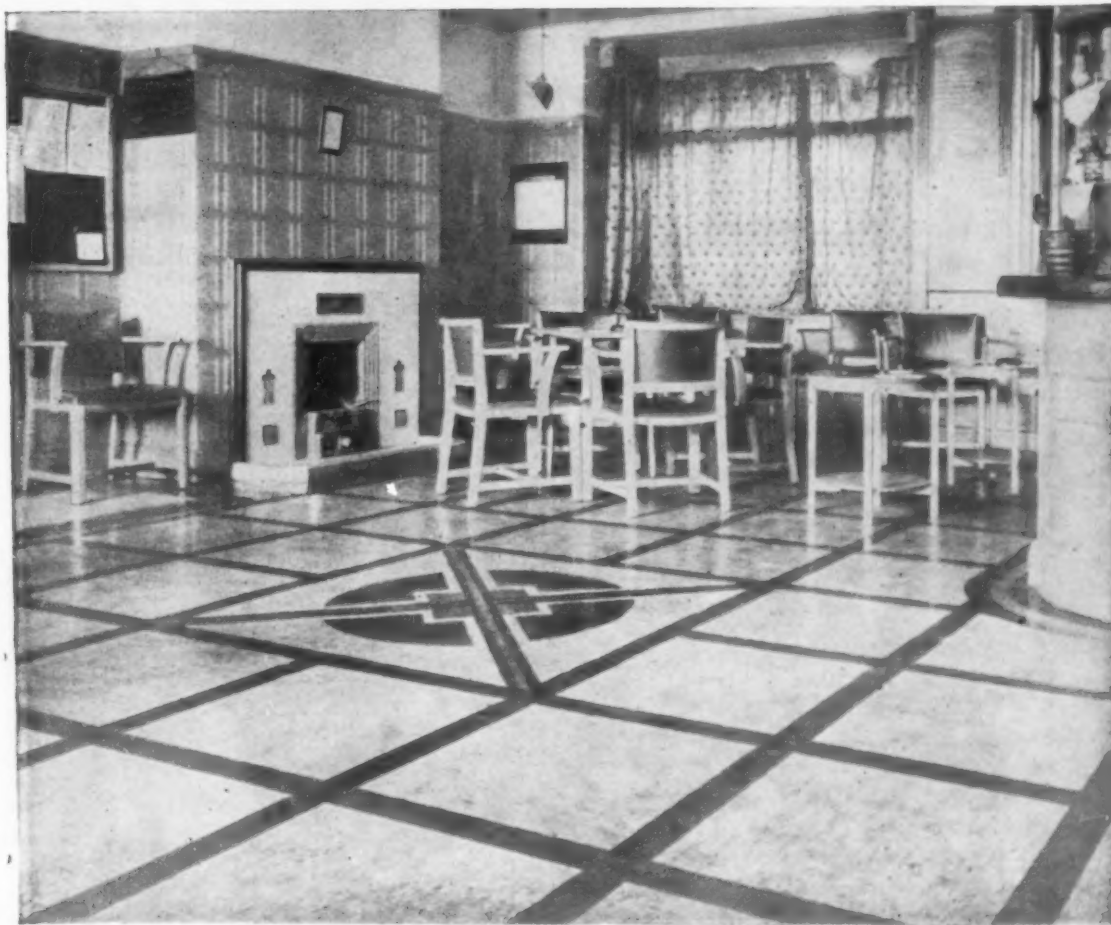
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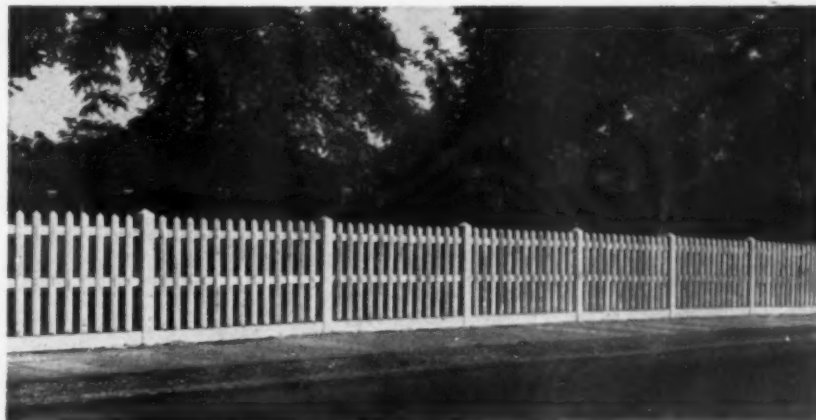
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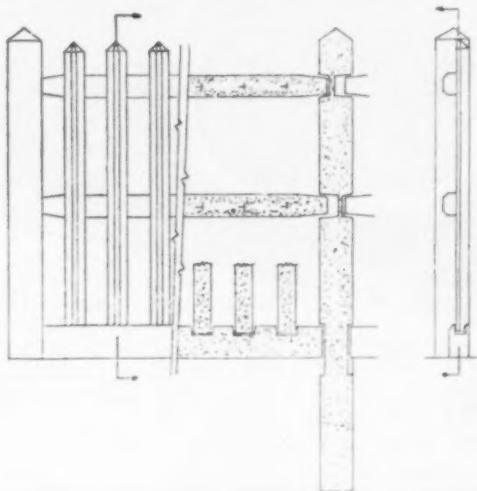
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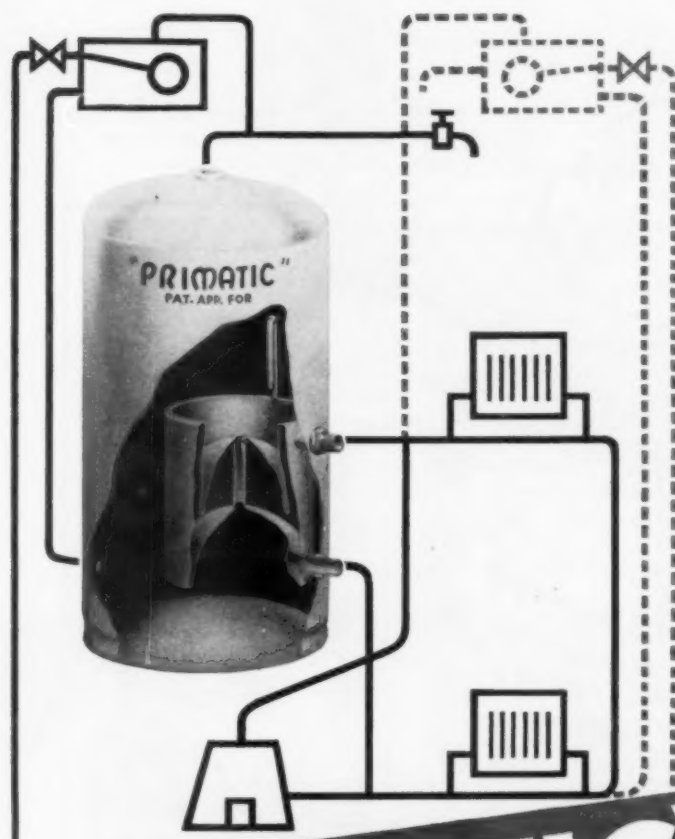
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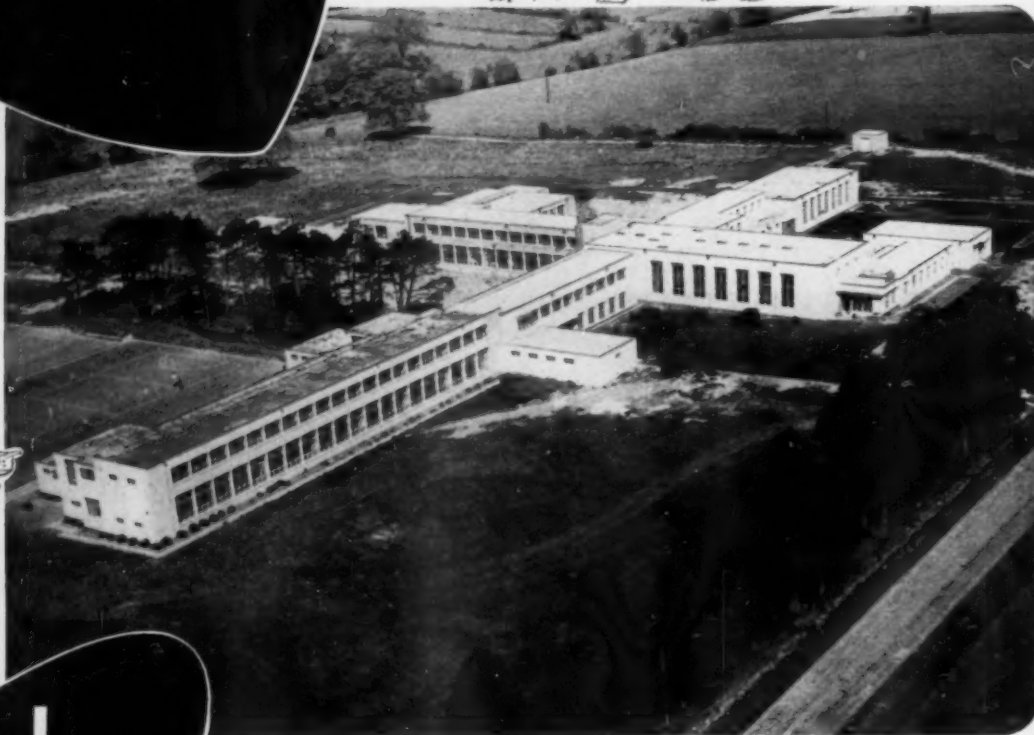
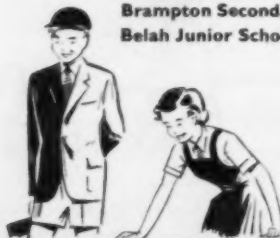
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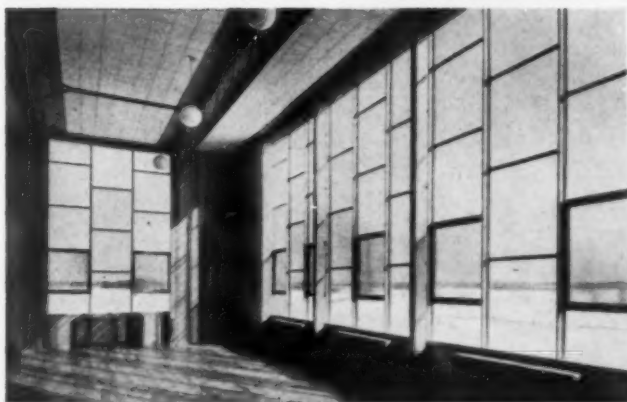
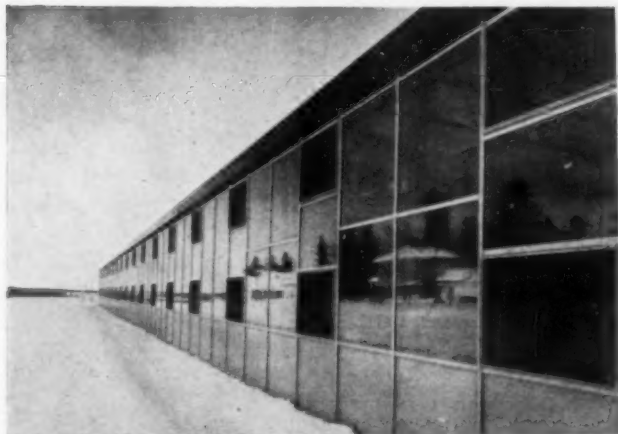
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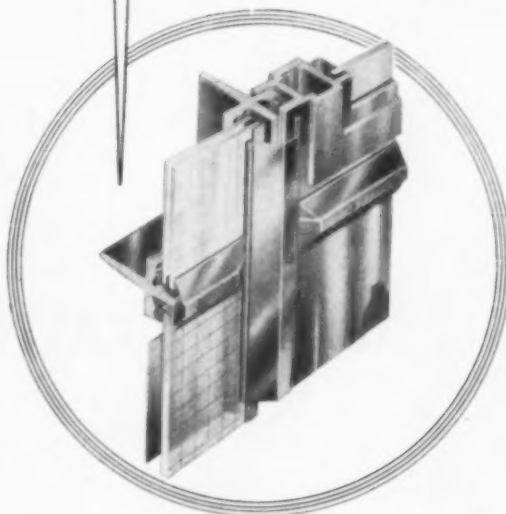


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(Illustrated top left) *The Wingham District High School, Toronto. Architects: Messrs. Kyles & Kyles.*

(Illustrated top right) *Proposed Apartment Block at 205 St. George Street, Toronto. Architect: Wilfred Shulman.*



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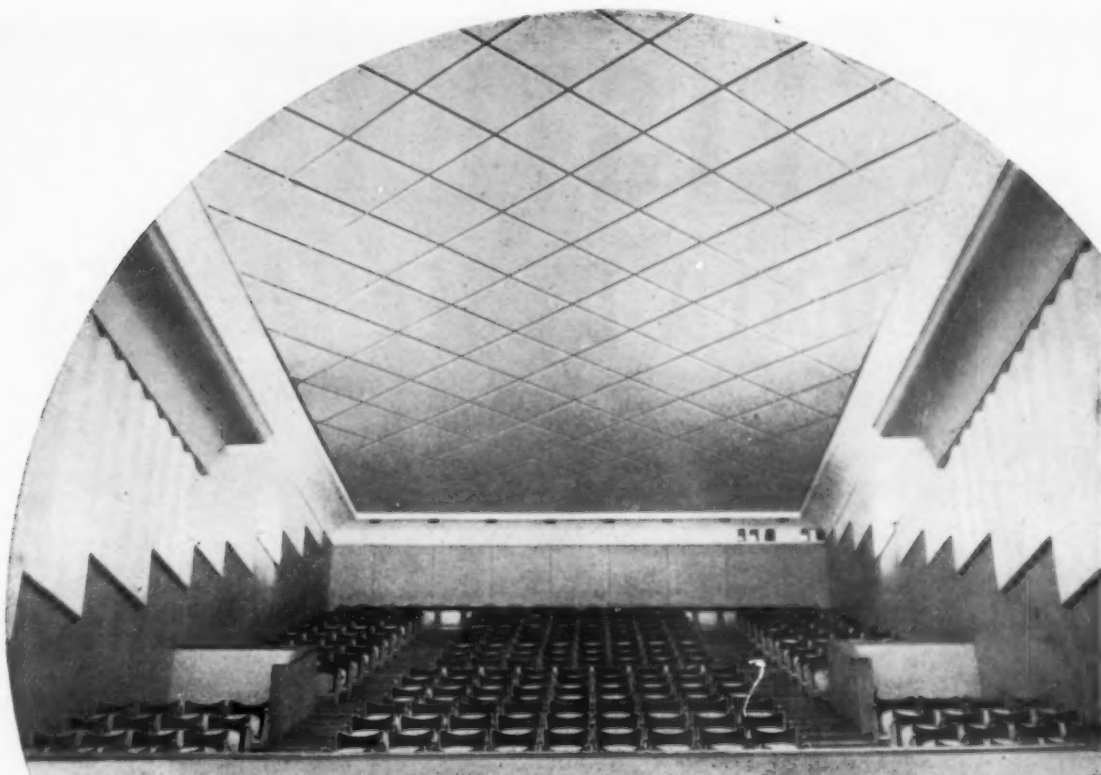
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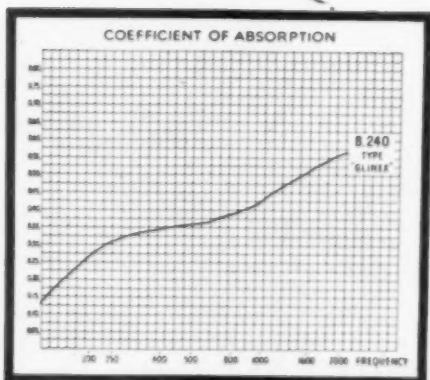
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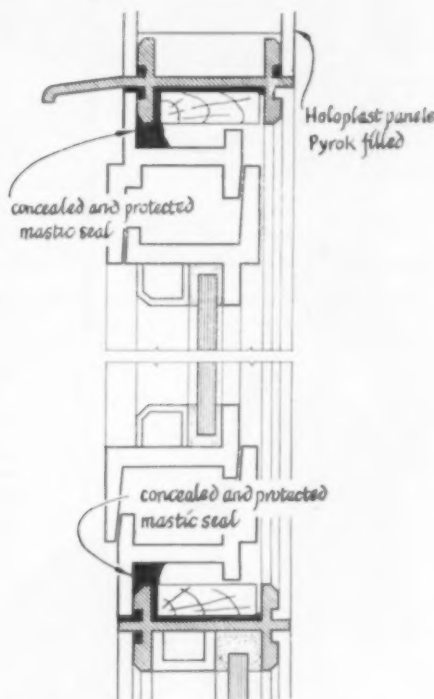


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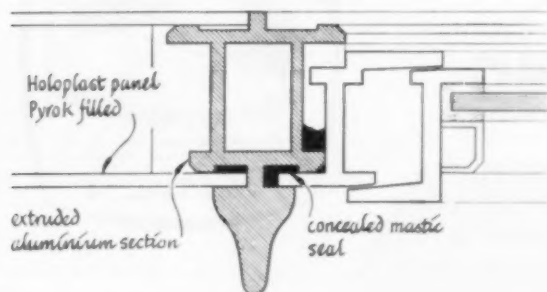


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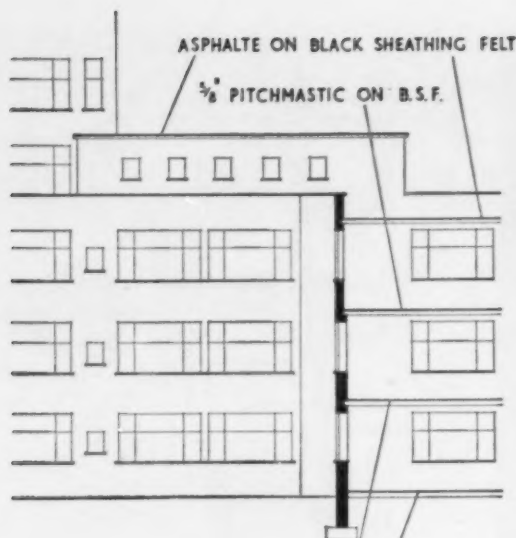
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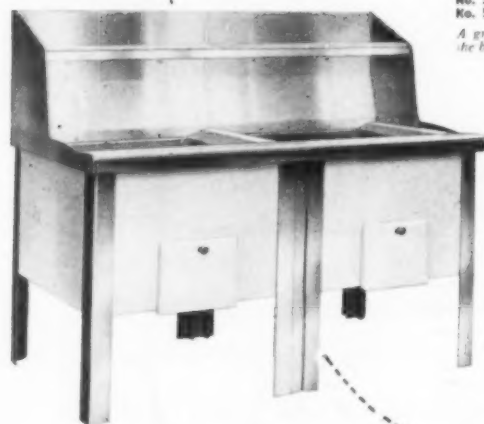
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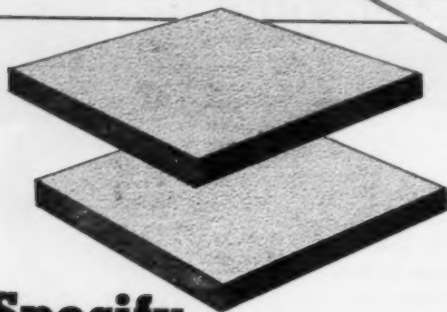


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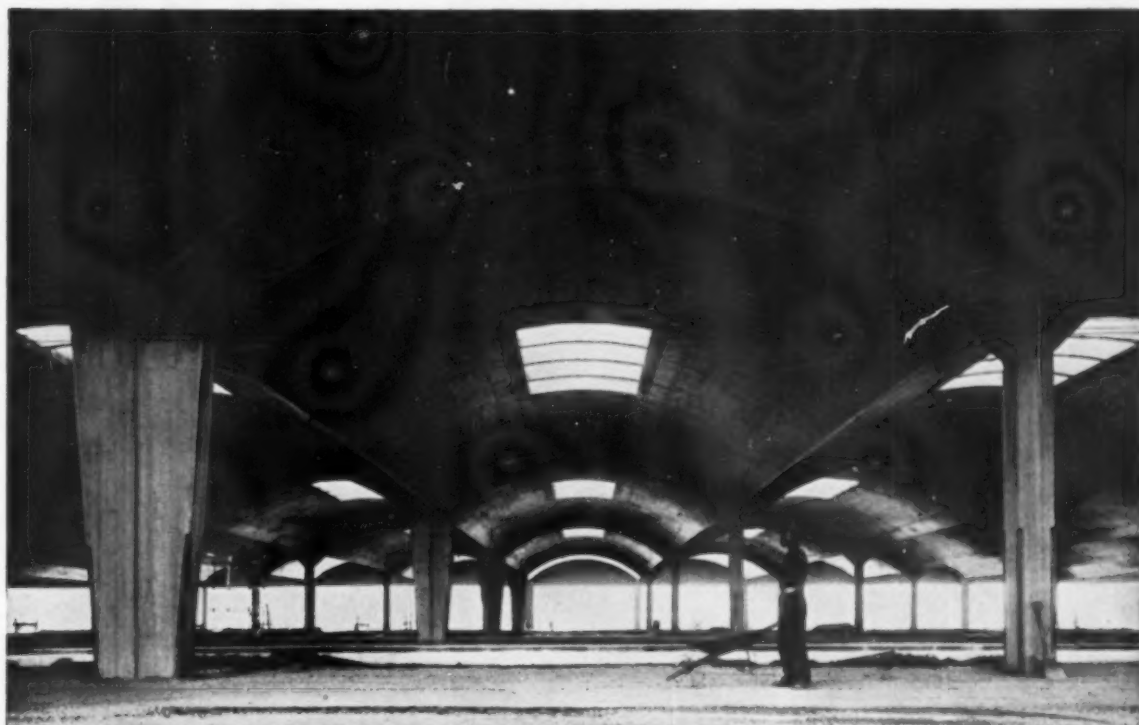


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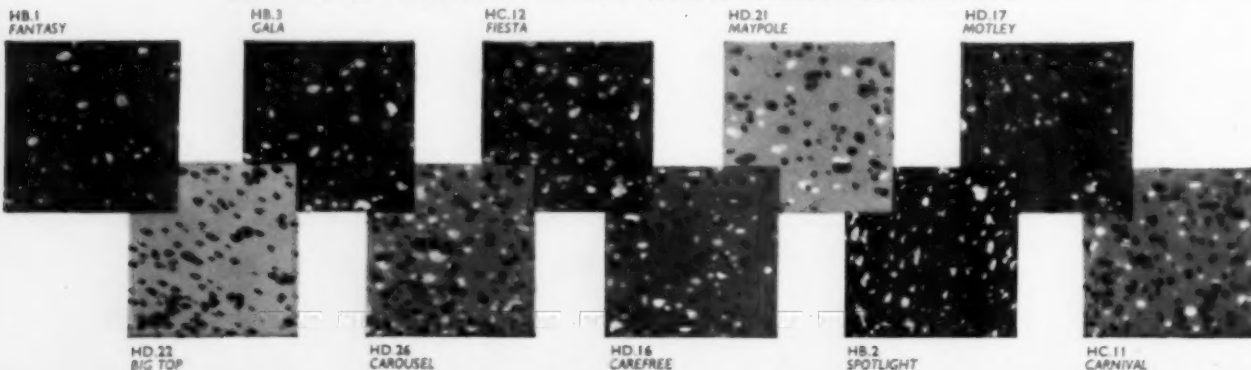
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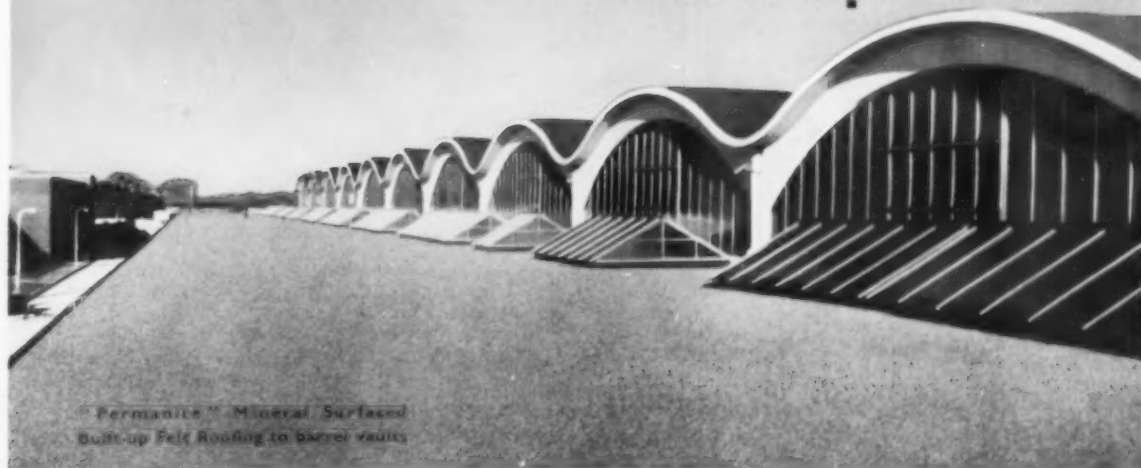
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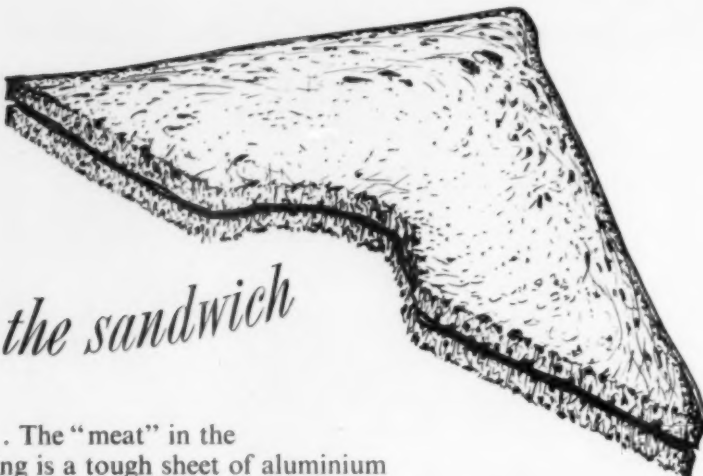
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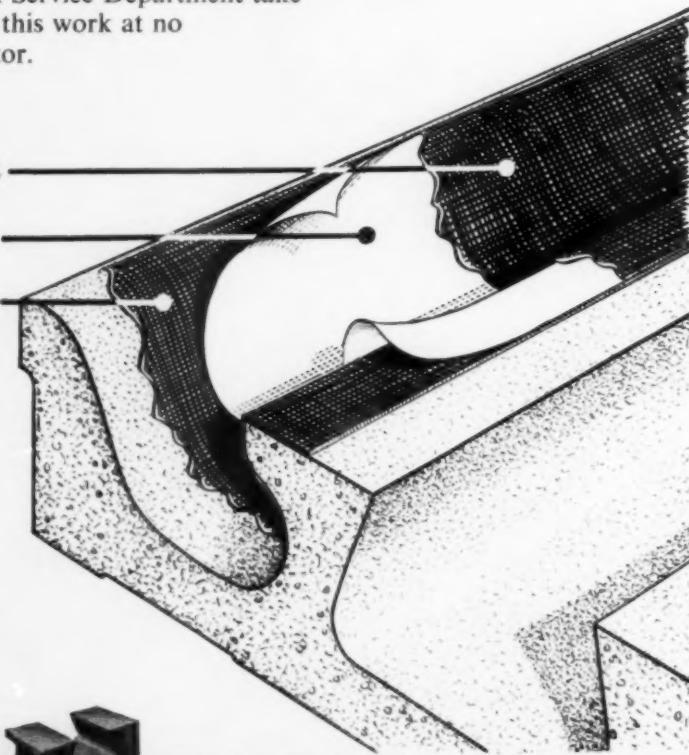




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# THE ARCHITECT & BUILDING NEWS

4 August 1955

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## GREEN AND PLEASANT LAND

AT the first conference of national park authorities held in London on July 26, the Minister of Housing and Local Government asked what more could be done to interest the public at large in national parks since their success must depend on the extent to which people actually cared about them.

Not so long ago the same question must have been asked about the sea coast; and the answer can be seen in the "resorts" which cater for the annual exodus of town dwellers to the seaside. But while the majority of people are quite content to enjoy themselves gregariously, there is a by no means negligible minority who feel an equally strong need for peace and quiet and natural beauty. Are not the national parks for them?

The industrial lead of the last century has enabled the country to earn its living by manufacture so successfully that we have been able to a great extent to retain the picturesque pattern of medieval and eighteenth century agriculture since it has to feed less than half of the population. We are aware that what one calls the "country" has an economic rather than an æsthetic explanation, and that the production of food as a serious business changes the landscape to the form it must; but most of us resent the idea that we have to allow the strong tide of economic determinism to carry us towards a form of existence that inevitably kills the things we love.

To create what we wish to have as well as we know how is the highest achievement open to us.

The great parks of the eighteenth century land-

owners exemplified this in their strictly limited form. The partnership of the wealthy patron and the man of talent and ideas transformed parcels of land into the magnificently landscaped places we know.

Today we have to forge equally effective teams from different materials.

Ministers we have who themselves know what is desirable but hesitate to run ahead of public opinion, or snatch power from local authorities even when these authorities are paralysed by the blurred decisions of committees from taking action that demands above all imagination and conviction.

The national parks will function so long as they remain such. Only sense and sensibility can tell us what to add to, or subtract from, them. If we introduce the discordant clangor from which the parks should be an escape it would be worse than the nerveless refusal to employ those who can add to the amenity and convenience of the public without disfiguring the parks.

Let us rejoice that such an authority as the North-West Electricity Board has decided to supply electricity to the Barrowdale area by underground cables without increasing its charge to consumers.

But what of the Lake District Planning Board which had, previous to this enlightened decision, accepted a scheme which involved three-and-a-half miles of overhead cable in Barrowdale?

To them we offer a white feather.

## EVENTS AND COMMENTS

### TWO EXHIBITIONS AT THE A.A.

This year the A.A. has put on an unselected exhibition of members' work at the same time as the annual school exhibition. This is a good idea—if you can last the course.

I see a great many exhibitions and sometimes it is very difficult to find anything to say about them. Indeed, with the short time usually available to inspect them it may be thought presumptuous for me to offer any opinion at all.

Often in the past I have found the A.A. school exhibition beyond me. The students seemed to operate in a completely unreal world of their own creation. It seemed the more unreal for containing photographs of real places and people all presented in a studio made fairy-tale world. During the past few years I admit that I have had this out-of-my-depth feeling less frequently until this year I felt solid ground beneath both feet for the first time. By this I do not mean that the students work lacks imagination for it does not. What I do mean is that the approach of all the work is more practical. Schemes are less fantastic, projects are smaller and more completely worked out. Presentation is better and everywhere I had the feeling that the authors of the various drawings and models knew very well what they were about.

The first year in particular pleased me with its essays in shape, form, colour and texture. In the past I have sometimes wondered whether the students really appreciated the whys and wherefores of this work. This exhibition leaves no doubt that this group of students does.

Compared with the work of students of the Royal Danish Academy the second year seems astonishingly advanced, although less attention is apparently paid at the A.A. to the working out of the use of materials in simple structures.

Model making is extraordinarily good and the plain wood models of timber-framed buildings are truly excellent.

This year, even in the top ranks, there is far less paper and what there is is well covered with marks of steady and understanding application. I am also delighted to see that sheet sizes are smaller, this I am sure leads ultimately to clearer and better drawings and less blinding with science.

It is good to be able to give such unreserved praise to an exhibition. Go and see it if you can.

### THE ASCOT COMPETITION

The Ascot Gas Water Heaters held a party at the Building Centre last week on the occasion of the presentation of the prizes for their Building Exhibition stand competition. Mr. F. R. Yerbury, who was in the chair, was one of the assessors and gave a verbal report. He praised the prizewinning designs for their simplicity of design and good use of space, and said that although the choice of the winner was a comparatively easy task it was far more difficult to choose between the two runners-up. In commiserating with the also-rans Mr. Yerbury pointed out that a great many of the designs could not possibly have been built for the money.

The Earl of Limerick, chairman of the company, presented the prizes and congratulated the winners. He also thanked architects generally for their continued support.

Mr. Michael Patrick, principal of the A.A. School, proposed a vote of thanks to Lord Limerick and con-

gratulated the Ascot Company not only on promoting the competition but on the high average standard of the field of nearly 170.

My own opinion was that Mr. Patrick was being a shade over-polite to the generality, for I saw many very poor entries, and one or two monstrosities. There is no doubt, however, that the competition has served its purpose. Ascots will have a very good stand at Olympia. I cannot understand why more firms do not set about the Building Exhibition in the same way.

### IN A PERSIAN HOUSE AND GARDEN

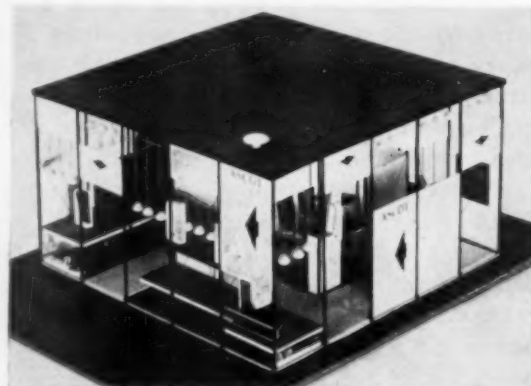
A reader has sent me a letter he has received from a firm of wholesale carpet dealers; the final sentence is, I think, worth reproducing:—

"Each (trade name) is a replica of a Persian masterpiece, but completely recoloured by eminent interior decorators in accord with the latest fashion trend."

### INSIDE OUT

How do you know when you are indoors? Not by looking. Although it could be argued that it was traditional for Gothic and Classic architects to employ the same elements both externally and internally, it was never, I think, done so skilfully as it has been in some post-war designs. I mean the ones where the outside is all timber-strip panelling and mosaic and when you go indoors you come on a lot of rugged stone and fair-face brickwork. Yes, sir! I put my hat on to these designers.

At one time ceilings were smooth and white, while floors were timber boards. This can now be reversed without comment, giving an upside-down as well as an inside-out look. Put the open-grate out-doors on the terrace, ready for the barbecue, and all that remains is to have clear glass in the bathroom door. Your uncle is then Bob, is he not?



Model of winning design in Ascot Stand Competition, by Mr. Dennis Pugh who described it as follows:

"Most stands at present-day exhibitions are brightly coloured. For this reason I feel that my neutrally coloured design will, by contrast with its neighbours, catch the eye far more forcibly than it would in any scheme of bright colours." Readers will be able to test this at the Building Exhibition, Olympia, where the stand will be erected. (See also pages 155 and 156 for other pictures)



The Spotted Cow, Hunston. Friary, Holroyd Healy's Breweries. Chief Architect: Ivan F. Roberts, F.R.I.B.A., F.R.I.C.S. Note chimney-piece in brick and slate



Coffee Bar in Dean Street. Designer: Geoffrey Crockett F.R.I.B.A., A.M.T.P.I. Note wall and pier in rough stone

## NEWS

### A.A. Scholarship in Architecture

The Council of the Architectural Association announce the re-award of the Natural Asphalte Council Scholarship for 1955 (presented by the Natural Asphalte Mine-Owners and Manufacturers Council) to Mr. John Quinlan Terry of Bryanston School, Blandford, Dorset.

### Encouraging "High Standards"

Mr. Duncan Sandys, Minister of Housing and Local Government, said in a written answer that he intends to seek the views of local authorities, industry and the architectural profession, in order to consider what practical steps can be taken to encourage high standards of civic and commer-

cial architecture throughout the country.

Replying to questions by Sir Alfred Bossom on the rebuilding of the City of London, the Minister says he hopes that a new plan for the area around St. Paul's will be submitted to the City Corporation in the autumn.

### West Riding County Works Department to Close

On July 20, West Riding County Council decided by 64 votes to 44 to instruct the Clerk of the Council to wind up the County Works Department at the earliest possible date. During the nine years this establishment has grown from 115 to 500 men and its function has been to carry out repairs, maintenance and small adaptations to properties. The Conservatives justify their move in that they claim to be carrying out a mandate given them at the last election in April following their promise to the ratepayers

that the department would have to stand the test of competition or disappear. Alderman Mrs. K. Ryder Runton, leader of the Conservatives, declared that the clear fact emerged that the Department could not compete against open tender and there could be no other policy but to wind it up. During the three-hour debate the Conservatives were accused of "sheer wickedness" and of "appealing the contractors," and Councillor Sir Thomas Tomlinson (Soc., Hoyland) asserted that they would see the Works Department rise again in a more formidable form.

### Restrictive Practices

Kent County Council at Maidstone yesterday approved without discussion the action of their buildings committee in striking 41 firms off the council's approved list of contractors because they had failed to signify they would not follow certain restrictive practices.

## SIR JOHN SOANE'S MUSEUM

For some weeks now I have had on my desk a slim brown volume. It is Mr. John Summerson's latest work, a new guide to the Soane Museum. I have not yet read it but I am told that Professor Pevsner has and, needless to say, claims to have found an error in it. I promise I will read it. Meanwhile, I can truthfully say that it is nicely produced and well illustrated, and costs—well, it is not marked.

## STATUES IN THE FUTURE

It is clear that the horse will no longer do for supporting commemorative statues of generals. No doubt many a dashing commander of armour likes to think of himself as a battling equestrian and I should be surprised if we had any generals who did not know one end of a horse from the other. None, I am sure, would ever admit it. The Australians are more honest. A statue to Field-Marshal Sir Thomas Blamey is to show him standing in an open car. It is difficult to understand why he should be standing. Equestrian generals never stand on the mounts. Why does he need to stand on anything other than a plinth—like a great many other distinguished persons? Boadicea I know, had a chariot, but Nelson has to be content with a column in place of a ship. Just think of the difficulty of portraying a parachute general. Even supposing they are serious about the car for Blamey, what make and year will they use? Has anyone ever sculpted a car? Horses don't date but cars do and imagine the snorts of the Vintage Car Club at the dozens of anachronisms which the sculptor would be bound to include in his version of a Vauxhall 30/98 or snub-nosed Morris.

## MERRION SQUARE, DUBLIN

The U.S. State Department wants, I understand, to build in Merrion Square, Dublin. I believe it already owns some property there. My information is that in a rather lordly way they cannot decide which bit to pull down. Architects in Eire, beware!

ABNER





A party of Soviet Building officials and builders recently visited this country. They showed great interest in the working of the Building Centre. Here Nicolai Smirnov head of the Department of Dwellings and Civic Buildings, Pyotr Novozhilov of the Ministry of Construction Materials and Raisa Bobrova of the Soviet Embassy are seen with the Director of the B.C. F. R. Yerbury

### Clean Air Bill

The Clean Air Bill was published on July 27. Among its provisions are:—

No new furnace (other than a domestic furnace) may be installed unless it is, so far as practicable, capable of being operated continuously without emitting any smoke (Clause 3).

Local Authorities are empowered, by order (to be confirmed by the Minister) to designate "Smoke Control Areas" in which the emission of any kind of smoke from the chimney of any build-

ing (unless specifically exempted) will be prohibited. (Clause 8.)

In a "Smoke Control Area," owners or occupiers of existing private dwellings are to receive grants up to 70 per cent towards the cost of adapting or replacing their grates and stoves so as to enable smokeless fuel to be used. No grants will be payable in respect of houses built after the Bill comes into force (Clauses 9 and 10).

#### CHANGE OF ADDRESS

Messrs. Skinner, Bailey & Lubetkin have changed their address to 58, Queen's Gardens, W.2. Tel. Paddington 1637-8.

#### CORRESPONDENCE

### "Open Tread" Stairs

To the Editor of A. & B. N.

Sir,—I refer to Mr. Geoffrey Manly's letter: surely he means open risers? Treads can never be wholly open, though they can, of course, be gridded or made of glass.

The reply to his objection is that it must remain a question of taste how far the aspirations of ground floor males should be curbed or encouraged. But there are practical objections which override this somewhat nice point.

Any housewife will confirm that the parts of houses needing the most constant cleaning are stairs and circulation spaces. The process—even with vacuum cleaners—means that much of the dust and dirt on stair treads must pass through the open risers to fall on the cactus plants and choice modern pieces artfully disposed below. In Mr. Manly's case "there's mud in your eye" too, one imagines. Why not glass risers, if one must have this sort of staircase?

I am, etc.,

HUGH P. CRALLAN

#### APPOINTMENT

The Harlow Development Corporation has accepted with regret the resignation of its General Manager, Mr. W. Eric Adams, C.B.E., which will take effect at the end of October, when he will take up the Chairmanship of a Development Company in London which is a subsidiary of the Costain organization.

The Corporation has appointed Mr. B. Hyde Harvey, F.I.M.T.A., F.S.A.A., D.P.A., at present its Comptroller, to succeed Mr. Adams. Mr. Harvey, has been with the Corporation since 1947, when he was appointed Chief Finance Officer. In 1948 he became Deputy General Manager.



The new factory for Matthews & Mumby, Ltd., at Denton, Manchester, was designed for erection in precast concrete units cast on the site. Architects: Messrs. Taylor & Young, F.A.R.I.B.A. Structural Engineers and Contractors are the clients who are reinforced concrete engineers. These prestressed precast arches are being erected at the rate of two a week; a description of the design and erection will appear in a future issue



## IRISH EXPORT CENTRE

Alterations designed by MICHAEL SCOTT

in association with DESIGN RESEARCH UNIT

THE conversion consisted of providing a display area on the ground floor, in which various Irish firms could show their goods in individual display recesses, and a large open space on the first floor where dress shows and art exhibitions can be held: in close connection with the latter are offices both of the Irish Exports Promotion Board, and some of the firms who are displaying goods.

The ground floor showroom consists of two main areas, the larger being covered with a bright blue velarium, and the smaller with an orange-red one. Use is made of the Irish pubwall motif, and also the symbol of the Irish Export Promotion Board, which is a triscilian based on an old Celtic device. Apart from the velarium, colour is chiefly concentrated in the display recesses, where bright yellows, reds and greens are used with black: a mustard-coloured carpet leads from the main entrance up the stairs to the main first floor area, which is also carpeted in the

same colour. An L-shaped low ceiling is formed at the entrance covered with narrow, polished beech strips.

On the first floor colours are lighter in key, the ceiling being pale blue with white beams and cornice, the walls coffee coloured with doors of a darker shade: a range of storage cupboards have pink doors, and a low storage fitting dark green doors with white-painted and mahogany surrounds, topped with Irish green marble. A panel above this fitting to take exhibitions of pictures is covered in green Japanese grasscloth.

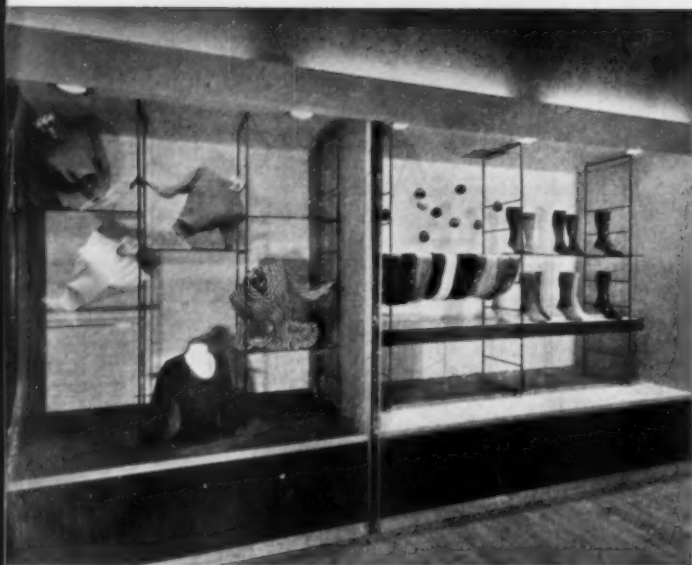
The offices themselves are simply decorated with green-grey walls and white ceilings and paintwork.

The lettering and decoration at the entrance, and most of the displays on the ground floor, were carried out by Clifford Hatts, A.R.C.A., M.S.I.A., and Ronald Sandiford, M.S.I.A.; the general contractors were Holloway Bros. (London), Ltd., 43, South Audley Street, London, W.1.

Ground floor exhibition area



### *Irish Export Centre*



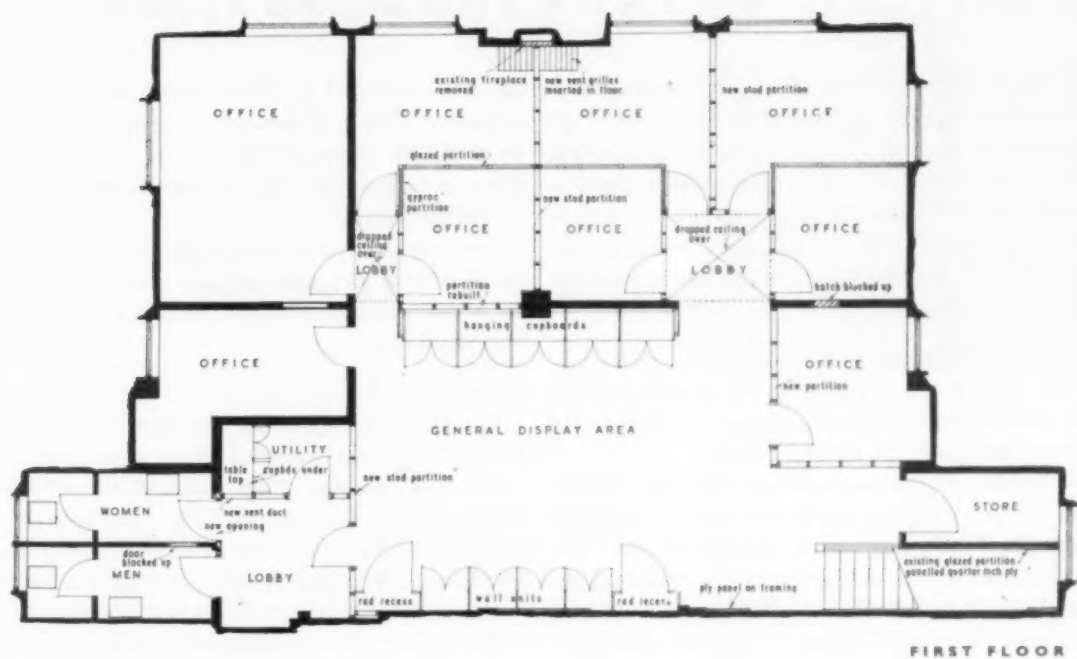
*Knitted garments from Irish Textiles Ltd. and knitting wool and hosiery from Mahoney of Blarney*

*Another part of the ground floor exhibition area*

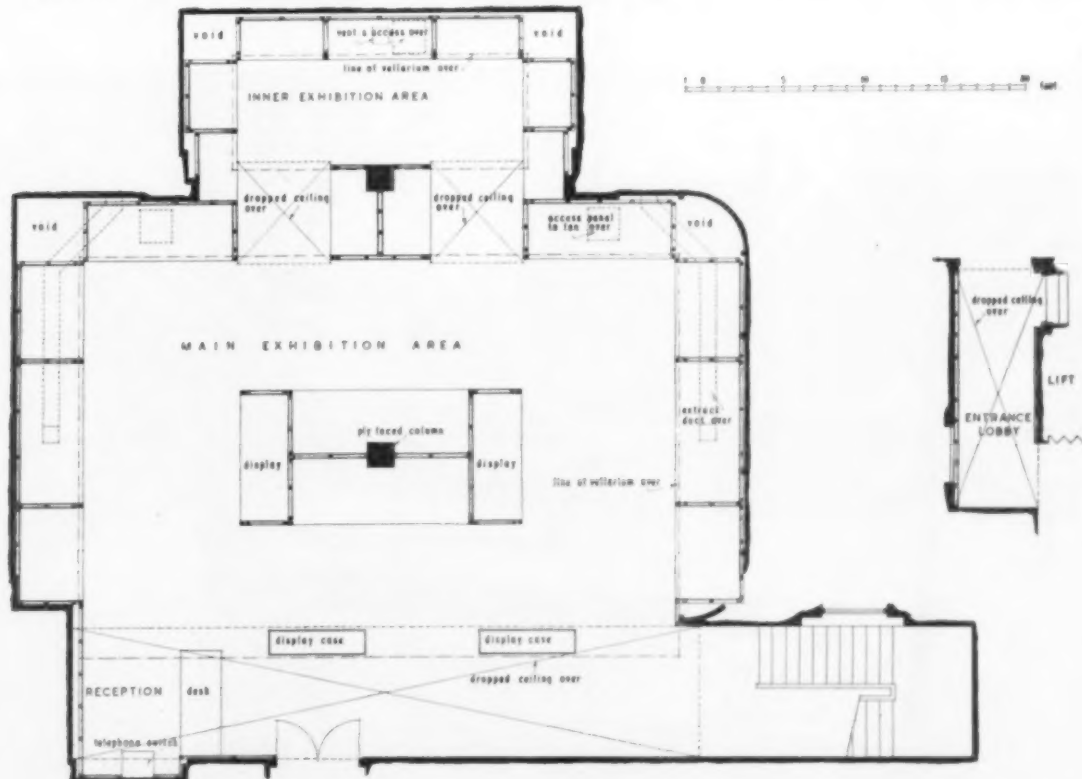


*Confectionery by F. G. Thompson & Son Ltd. Cork. Canned meat from Clonmel Foods Ltd. Tipperary*





### GROUND FLOOR



## OFFICES & SHOWROOM FOR WOTTONS

THE clients, who are general builders' merchants and glaziers, required the then existing structure to be converted into offices and showrooms with additional showrooms at the side. The building was originally a private house which had been converted into a service and filling station. It had been damaged during the war and was in a bad state of repair; the general structure however was sound.

### *The Solution*

The solution was to provide a shop window over the full width of the site to form as far as possible an architectural unity with the existing building.

It was felt that the most satisfactory method of display was for the showroom itself to form the shop window; lighting and decoration were designed to this end. The internal decoration of the showrooms is intended to form a background to the varied and brightly coloured goods displayed. To achieve a feeling of unity inside the showrooms the ceiling and floor were carried through in the same materials and at a constant level. In addition, the lighting was arranged to an overall pattern. The height of the ceiling was dictated by the existing ceiling height

and was constructed of white painted matchboarding on battens. The walls were painted white, grey or dark green and the woodwork was stained to a mahogany colour and varnished. The structural elements were painted matt black.

Externally the lower storey was painted black and white and in order to give more emphasis to the ground floor the original structure above was painted a dark grey with white woodwork.

### *Structure*

The basic structure of the extensions was in Hills 3ft 4in "Pressweld" supplied by the parent company with a roof consisting of 3in woodwool covered by a screed and three layers of felt. The walls were either fixed glass or brick. The dropped ceiling in the showroom was constructed to avoid obstruction of the windows of the adjacent premises.

The existing buildings required a certain amount of patching up and some of the openings were made higher to enable the ceiling to run through at the same level. The irregular shapes of the existing walls were "camouflaged" with display shelving.



# (CROYDON) LTD.

architects:

ARCHITECTS' CO-PARTNERSHIP

Quantity Surveyors:

Davis Bellfield and Everest

General Contractors:

Truett & Steel

Sub-contractors:

Roof—William Briggs and Sons Ltd.

Floors—Hallis Brothers Ltd.

Electrical—Arthur E. Cook Ltd.

Lettering—Pearce Signs Ltd.

## Contract

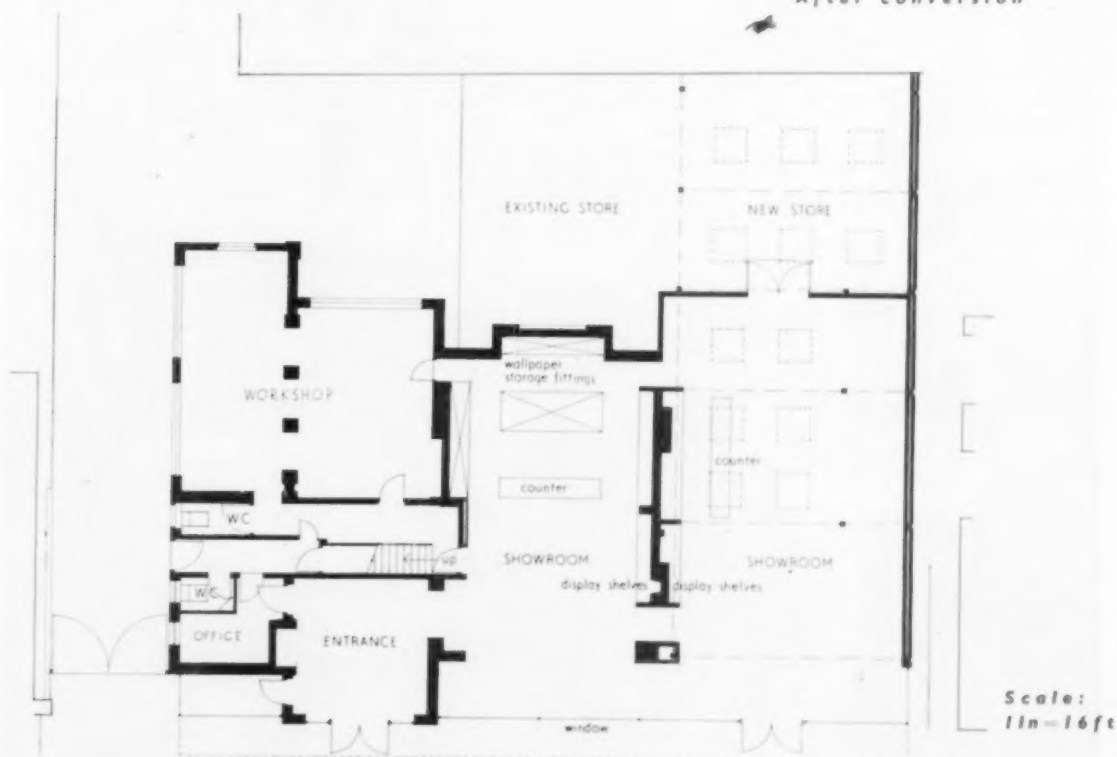
As work was required to be completed as soon as possible a Cost plus Fixed Fee contract was adopted. The cost was based on  $\frac{1}{8}$  in scale drawings and specification, and the details were prepared while the initial site works were carried out. Site supervision was weekly and a number of the more awkward details were decided on the site in consultation with the general contractor.



Before conversion



After conversion





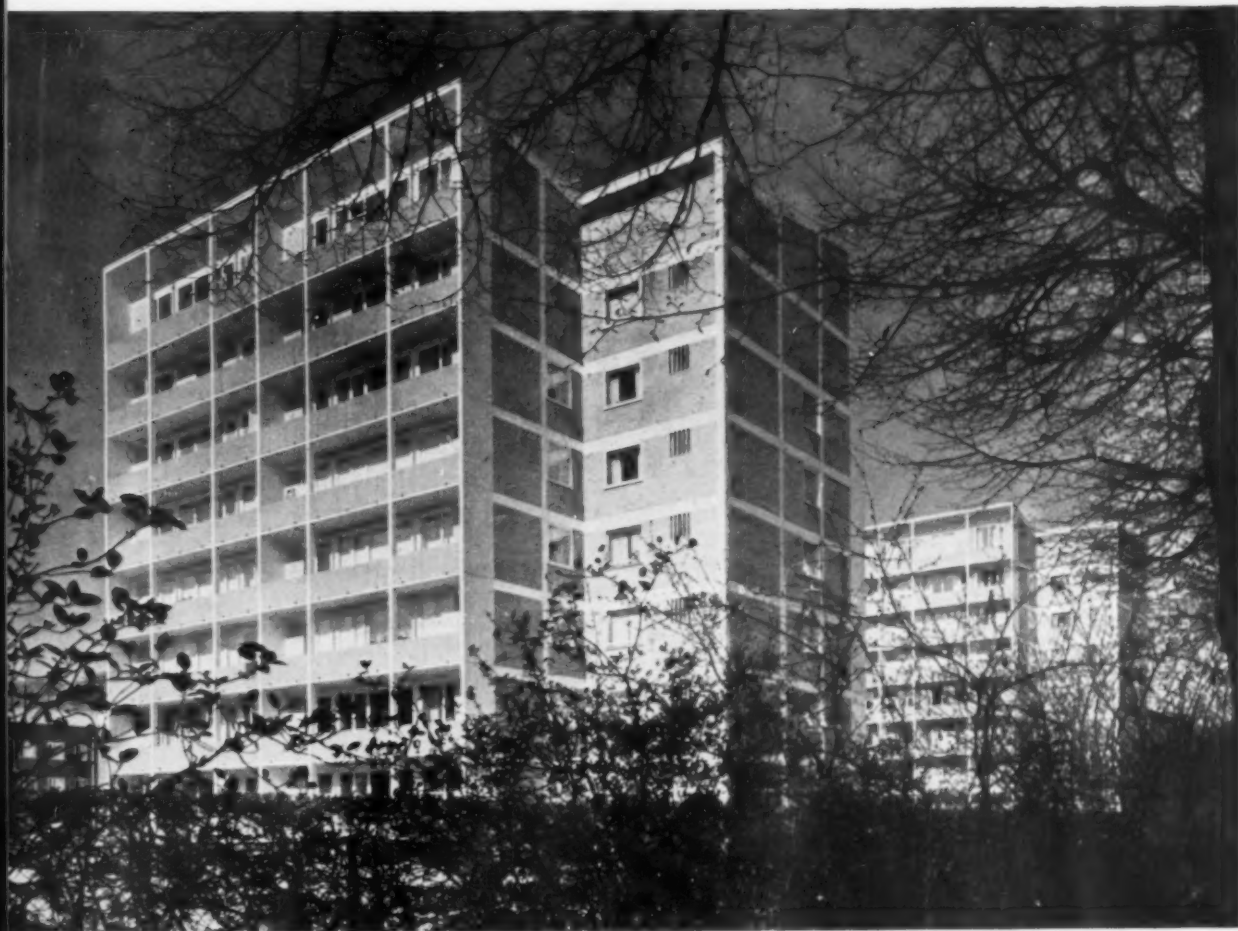
**Wottons'  
Offices and  
Showroom**



*Showroom display*

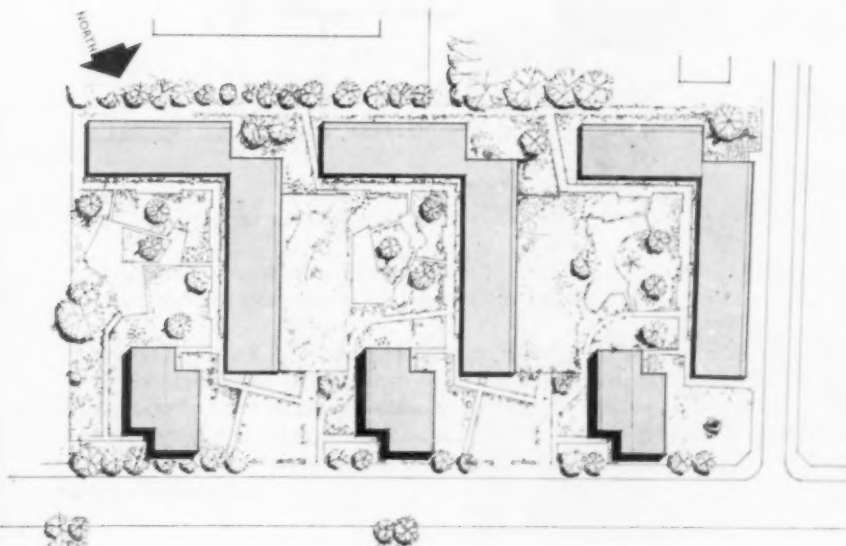
*Main entrance front*





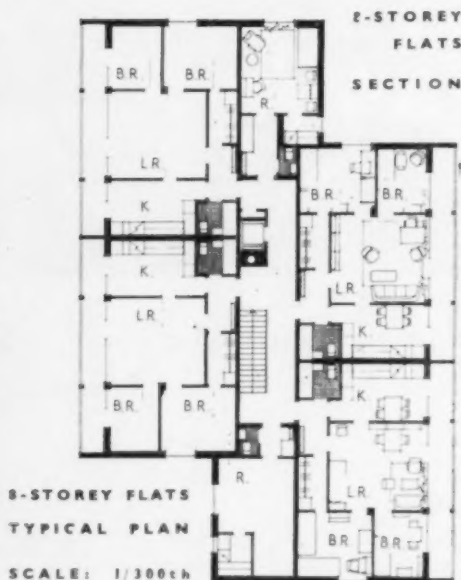
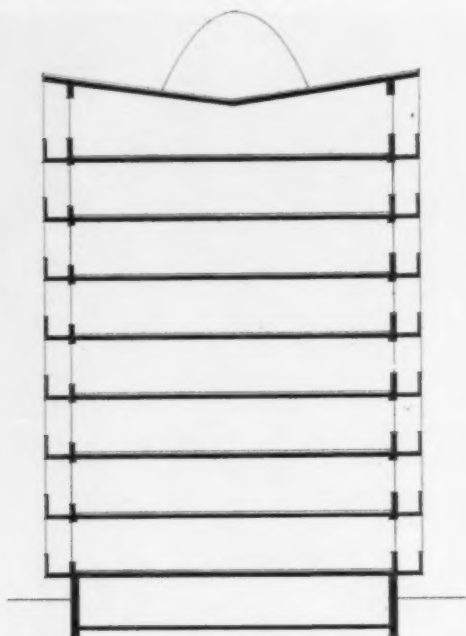
## *Flats in Malmö, Sweden*

architects : FRITZ JAENECKE & STEN SAMUELSON



LAYOUT OF FLATS  
SORGENFRI, MALMÖ

SCALE: 1/1600th

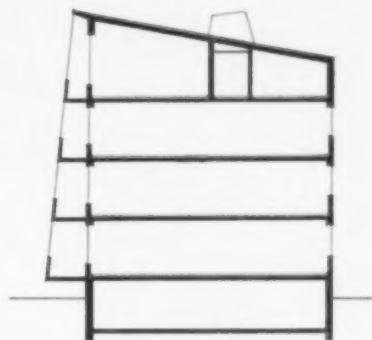
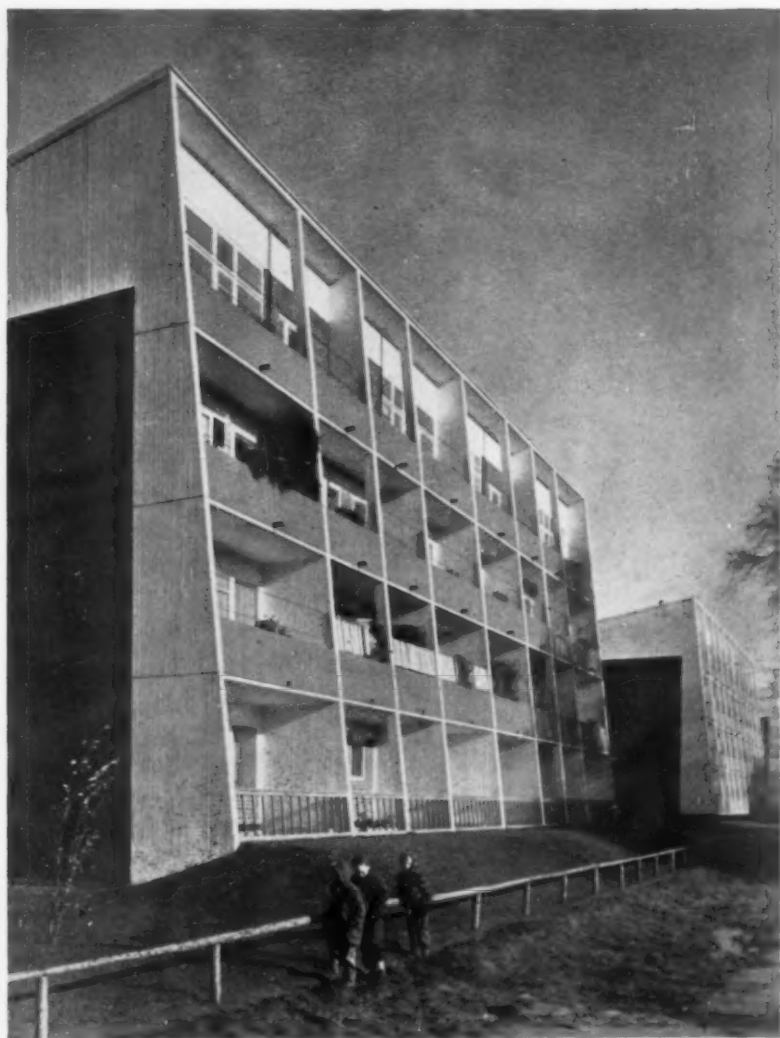


THE "Sorgenfri-flats" are planned with three 8-storey blocks and six so-called  $3\frac{1}{2}$ -storey blocks arranged as shown on the site plan (page 139).

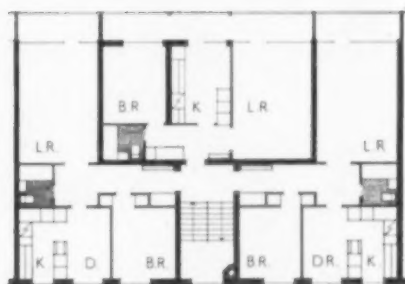
The  $3\frac{1}{2}$ -storey flats are four storeys high towards the sunny quarters but only three storeys towards the cold ones. In these flats there are three flats each with two rooms and a kitchen on every floor; the garret rooms are placed under the lower part of the fourth storey.

The 8-storey blocks have six flats on each floor. The flats contain either three rooms with a dining-kitchen or single rooms with kitchenettes. The two upper floors accommodate maisonettes each with five rooms and a kitchen.

The  $3\frac{1}{2}$ -storey flats are built of red bricks with inner skin of cinderblocks while the tall flats are of reinforced concrete frame construction with infilling walls of brickwork and cinderblocks as before. Balconies are arranged on the south and west elevations; and to obtain greater contrast between the high and low blocks, balconies of the latter have been made wider at the bottom.



PLAN & SECTION  
3 1/2-STORY BLOCK  
SCALE: 1/300th



# SORGENFRI MALMÖ

architects:  
Fritz Jaenecke  
and  
Sten Samuelson





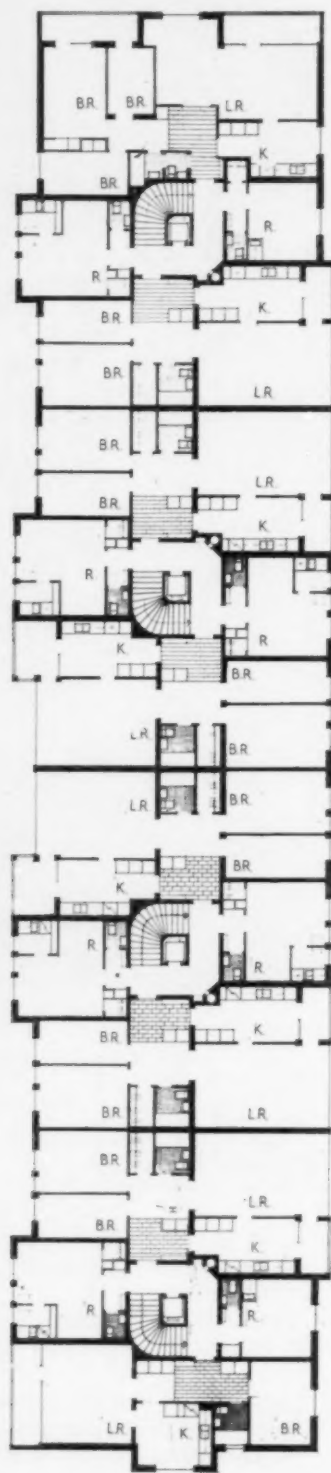


## KRONBORG

**I**N accordance with the law which existed in Sweden when this block was designed, each large flat had to be combined with a single room flat, and this made planning a problem. In half the apartments, living-room, kitchen and balcony are planned towards north-west and the sunset and in the other half towards south-east and a park.

The load-bearing construction is reinforced concrete walls and columns. The elevations are infilled with brick-work insulated with light-concrete 1½ in thick (cinderblocks). The exposed concrete in the framework was poured against rough boards.

The balcony fronts are prefabricated.

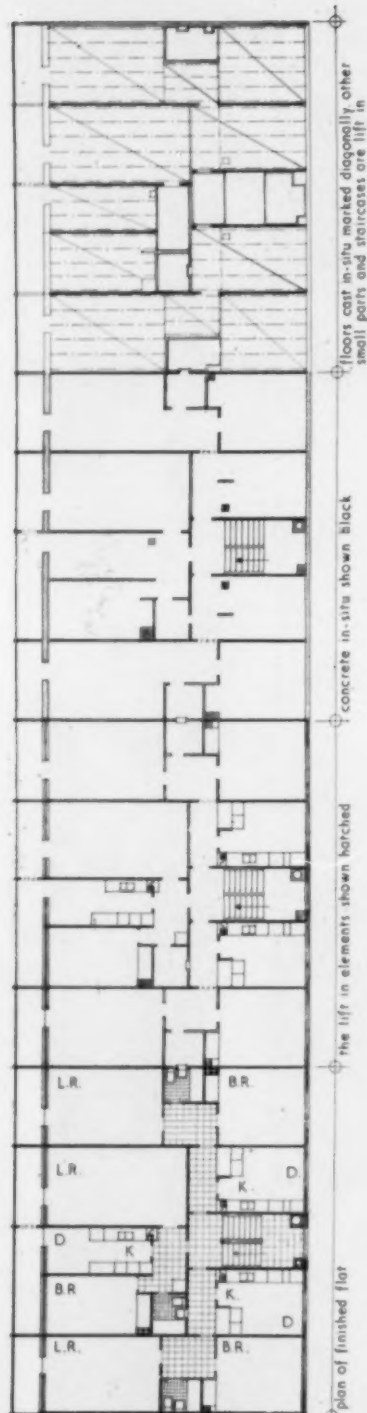


TYPICAL FLOOR PLAN

SCALE: 1/300th







SCALE: 1/300th



## BORNHOLM · MALMÖ

architects: Fritz Jaenecke &amp; Sten Samuelson

**T**HE precast flats at Bornholm, Malmö, sponsored by the Chief of Skanska Cementgjuteriet in Malmö, Mr. Nils Kjellström were erected to explore the possibility of building with the aid of machinery and using as labour non-specialized concretors. Not a single bricklayer worked on the building. The four-storey flats have four staircases and 48 apartments. The basement storey was poured traditionally, because the air-raid shelter and other basement rooms could not be standardized.

**Standard construction**

Cross walls are load bearing and cast *in situ* in standard formwork. The standardized forms are equal to the size of a full wall, and are made of timber in steel frames. The forms can be used more than a hundred times.

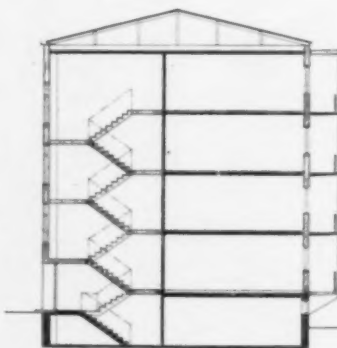
The floors are cast by placing, by crane between the cross walls, a special construction carrying the floor formwork. Some of the smaller floors, for instance in the bathrooms, are prefabricated and lifted into place by crane.

Non-bearing walls are 6 cm (2½ in) thick and have prefixed steel door frames. The frames and the stair-

cases are made in what is known as a "field factory," and put into place by crane. The infilling external walls are of sandwich construction; two skins of concrete with rockwool insulation between. These walls, which are suspended in the building in specially made brass framework, are also made in the field factory.

The electrical installation is precast into walls and ceilings. No plaster is used in the block, the natural surface of the concrete being painted or papered direct.

A surface heating system is run in the concrete of the floors.



## Health Clinic, St. Paul's Cray, Kent

ARCHITECT: P. J. B. HARLAND, F.R.I.B.A., A.I.L.A., A.A.Dip.

ASSOCIATE ARCHITECT: R. LOVELL PHILLIPS, A.R.I.B.A., A.A.Dip.

In collaboration with E. T. ASHLEY SMITH, F.R.I.B.A., County Architect

THE site consists of part of an area originally reserved for a health centre. In 1949 the Kent County Council voted £95,000 for such a project, which later had to be modified in accordance with national policy restricting capital expenditure, and it was decided that the clinic should be the first phase. There is sufficient area for extensions to provide complete health centre facilities if and when required.

The clinic was brought into use at the beginning of April, 1955, and provides health services mainly for mothers and children living on the St. Paul's Cray Estate—a large "out-county" housing estate developed in Kent, since the war, by the L.C.C.

The building has two storeys. In the ground floor accommodation is a complete maternity and child welfare clinic, comprising facilities for diphtheria immunization, vaccination, ante-natal and post-natal clinics, with facilities for relaxation classes for expectant mothers and mothercraft teaching and demonstrations. There is a room for "toddlers," who also have a play space outside the building.

The upper floor is used for the school health service. There are minor ailment, ophthalmic and dental clinics.

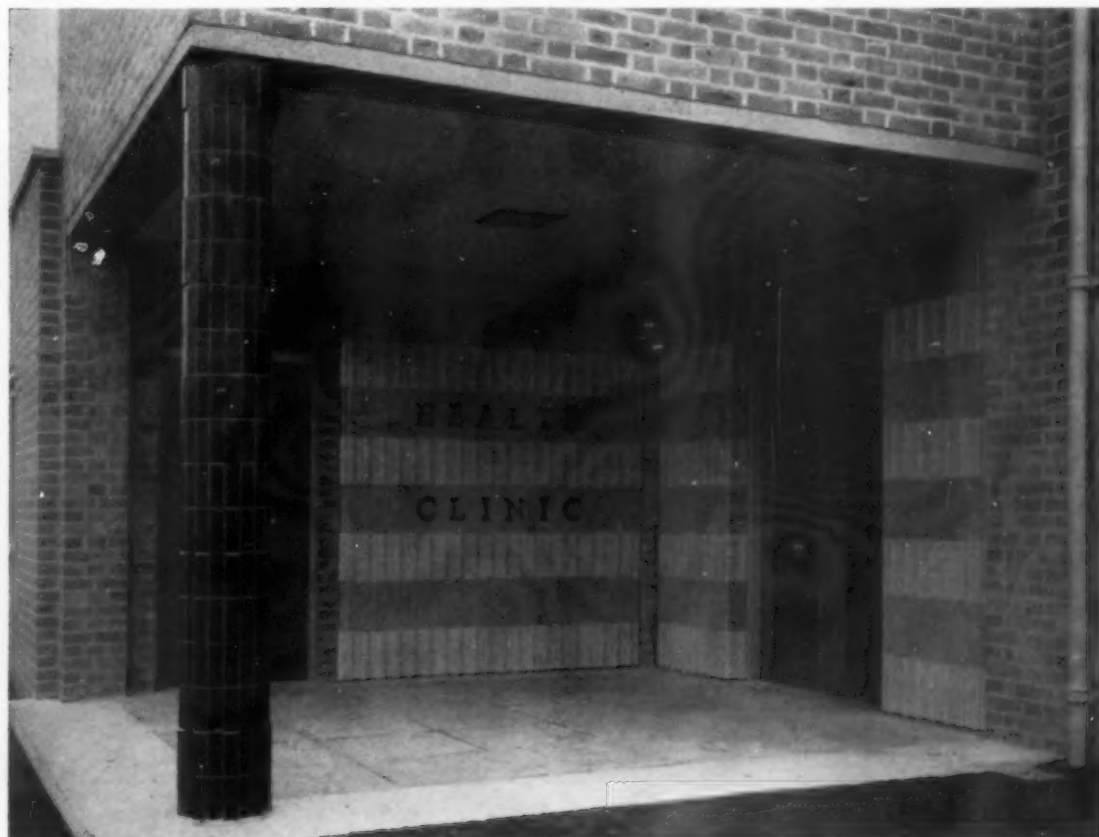
The last-mentioned has two surgeries—one for a dental surgeon and the other for an oral hygienist (who carries out such tasks as the scaling and polishing of teeth and instruction in the care of teeth).

The main entrance is ramped and allows prams to be wheeled direct to pram store, which is separated from the waiting hall by glass screens so that mothers may keep an eye on their belongings while waiting.

The waiting room is designed to accommodate between 50-60 mothers and to serve the purpose of lectures, providing information and literature, and the sale of health foods and teas for which there is a counter, store, and tea-making pantry.

The School Health Service on the upper floor is also provided with a waiting room, which is reached after passing enquiry counters for medical and dental clinics respectively. The exit from the dental recovery room by-passes the waiting room.

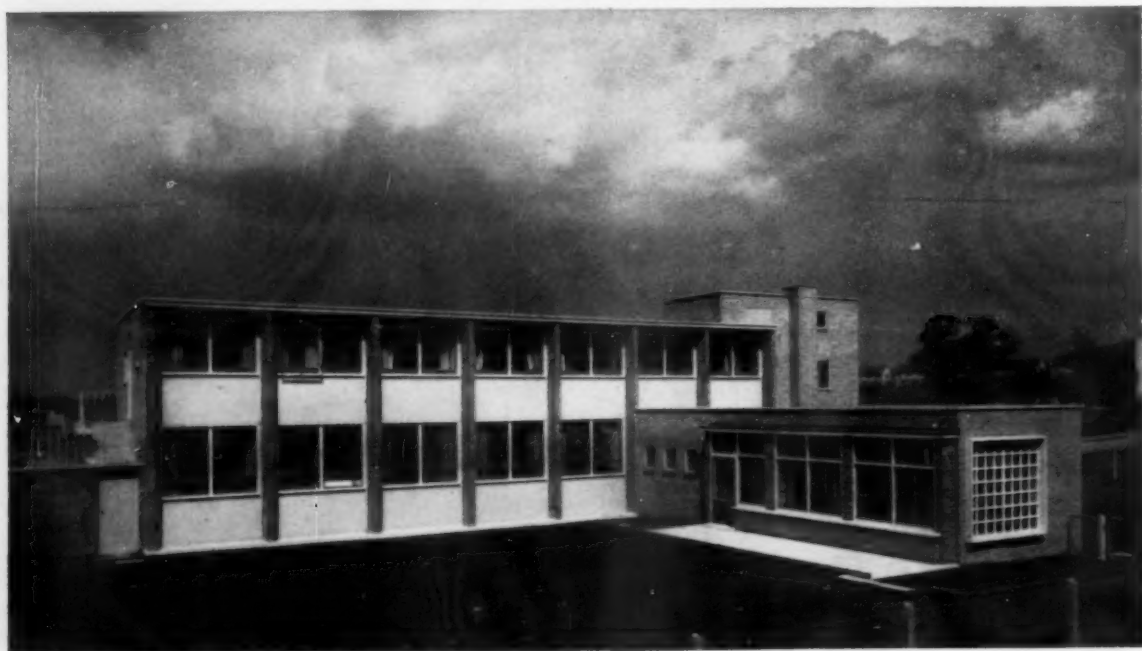
The construction of the building was designed when steel was in strict control. All main walls are load bearing, the outer walls of piers project partly to act as a "brise soleil" when the sun is at an acute angle to penetrate windows.





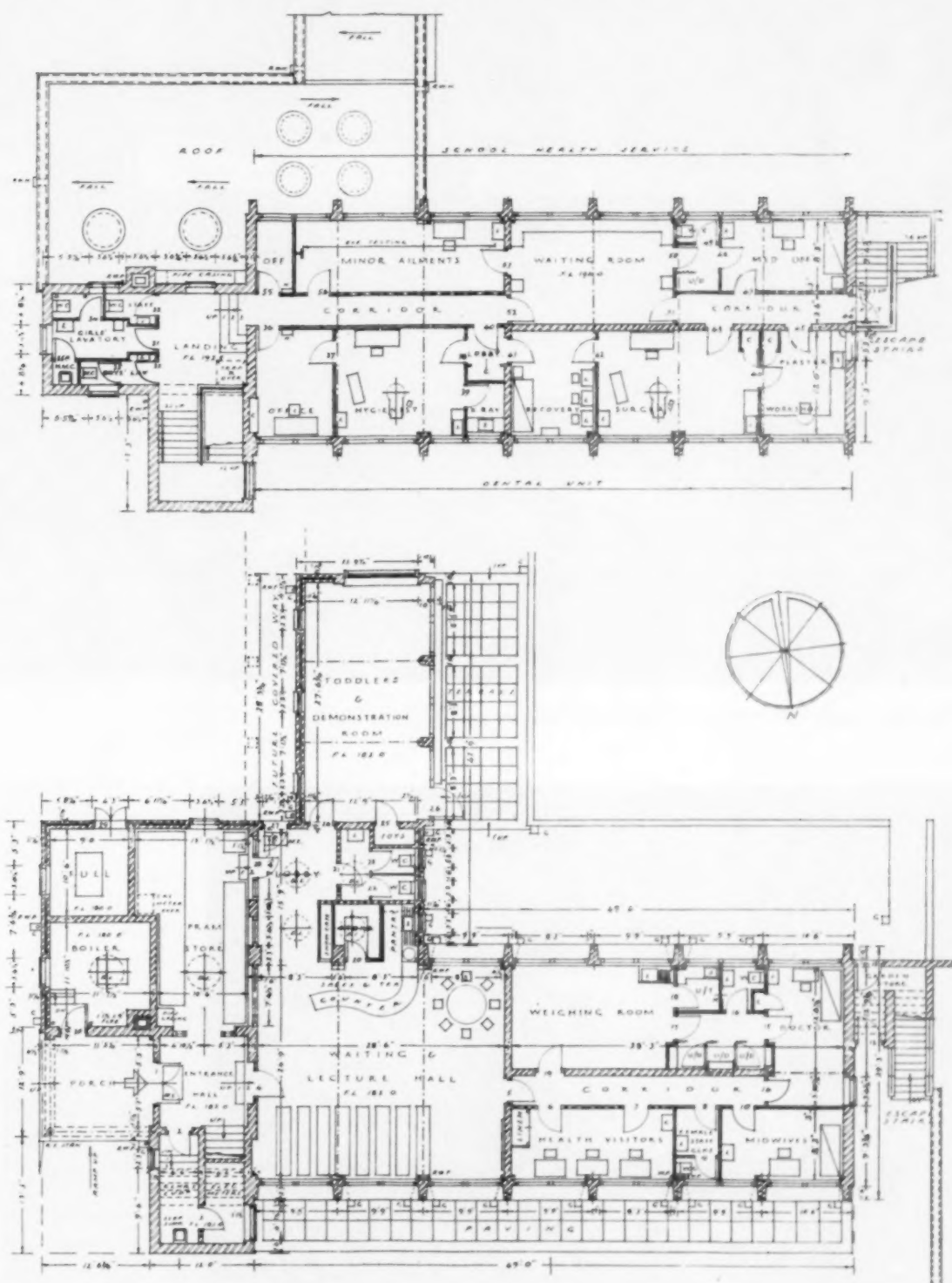
*Front elevation and main entrance*

*The new Health Centre, St. Paul's Cray, which was opened on Tuesday, July, 26, by The Rt. Hon. Iain Macleod, M.P., Minister of Health*



*Back elevation facing south*





GROUND AND FIRST FLOOR PLANS      SCALE: 1 in = 16 ft





*Waiting and Lecture Hall with counter for tea service*



*Toddlers and  
Demonstration  
Room*

## Health Clinic, St. Paul's Cray, Kent

Floors and roofs are of normal reinforced concrete. Service pipes and wastes are grouped into horizontal and vertical pipe casings with removable panels. Sound deadening is provided in corridors and lobbies by acoustic tiles.

The engineering services have been designed by the Buildings Department of the Kent County Architect. The heating and H.W. supply being from oil-fired boilers.

The cost of the site, building and equipment is about £30,000.

Quantity Surveyors:—Cyril E. Kenney & Partners.

Clerk of Works. F. T. Salmon.

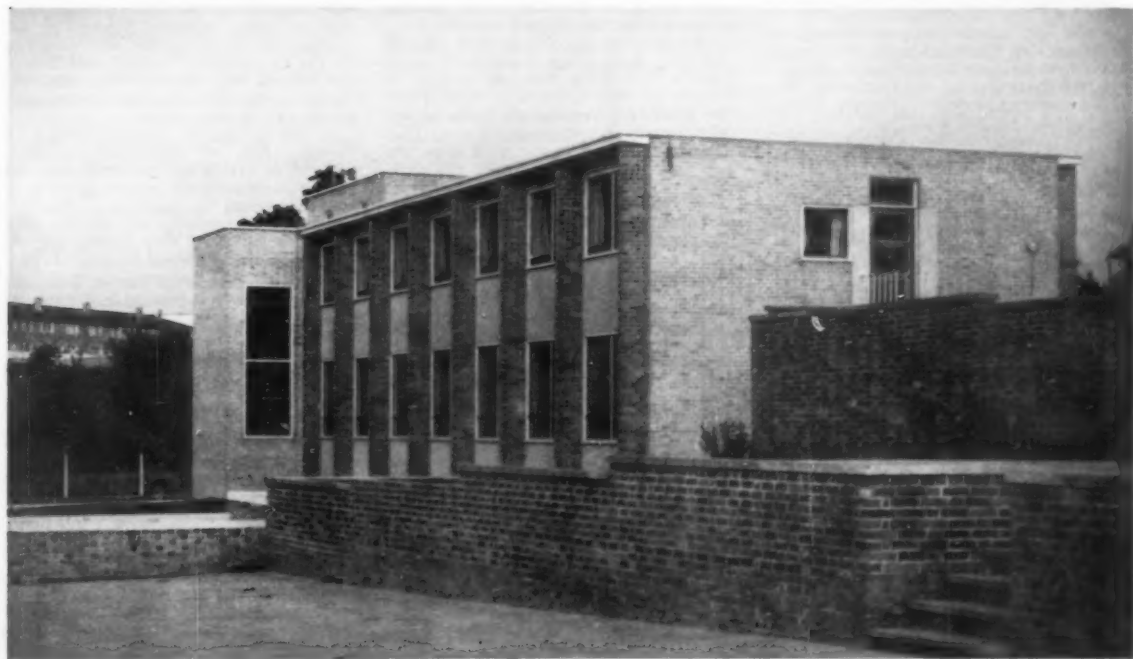
General Contractors

Norman, Wright (Builders) Ltd.

Acoustic Tiles: Sundeala Board Co. Ltd. Bitumen Felt Roofing: Wm. Briggs & Sons Ltd. Building Materials: Hall & Co. Ltd. Cellulose Flooring: Cellulose Flooring Co. Ltd. Dark Blind: J. Avery & Co. Ltd. Electrical Installation: J. H. Plant Ltd. Fencing: Penfold Fencing & Engineering Ltd. Flush Doors: S. Brand & Co. Glass Dome Lights: Faulkner, Greene & Co. Ltd. Glazed Tiling—External and Internal: Carter & Co. (London) Ltd. Glascrete Window and Screen: J. A. King & Co. Ltd. Heating and Mechanical Services: Engineering Service Installations Ltd. Hardwood Block Flooring: Horsley Smith & Co. (Hayes) Ltd. Ironmongery: Comyn Ching & Co. (London) Ltd. Joinery: Bakers Joinery Ltd. Lettering and Notices: Dale's Lettering Ltd. Paint: Imperial Chemical Industries Ltd. Polishing: Timbercraft (Surrey) Ltd. Rainwater Heads: Henry Hope & Sons Ltd. Reconstructed Stone: W. C. Richardson Ltd. Sanitary Fittings: John Bolding & Sons Ltd. Suspended Ceiling: Sundeala Board Co. Ltd. Structural Steelwork: Matthew T. Shaw & Co. Ltd. Tarpaving Tarmacadam & Curbs: A. C. W. Hobman & Co. Ltd. Terrazzo: Art Pavements & Decorations Ltd. Thermoplastic Tile Flooring: R. W. Brooke & Co. Ltd. Tubular and Wire Mesh Gate and Railing: Clark Hunt & Co. Ltd. Ventilators: Greenwood's & Airvac Ventilating Co. Ltd. Windows (Metal): The Crittall Manufacturing Co. Ltd.



Window detail and close-up of two of the lettering tiles in entrance porch





Shopping Centre, L.C.C. Housing Estate, St. Paul's Cray, designed by the L.C.C. Housing Architect. The Health Centre illustrated on the previous pages is on a site from which the photograph above was taken

## LAW REPORT

### Breach of Contract

**G**IVING a reserved judgment in the High Court on Friday, Mr. J. D. Casswell, Q.C., Official Referee, awarded £1,404 damages to R. B. Burden, Ltd., builders, of Staines Road, Hounslow, Middlesex, against Swansea Corporation for breach of a building contract.

He held that Burden's were justified in determining the contract and withdrawing their labour, because the Corporation had interfered with and obstructed the issue of an interim payment certificate, through a mistake but not wilfully.

He found the Corporation were in breach of contract in connection with, among other things, the duties of their architect regarding sub-contractors. In addition to damages he made an order for the Corporation to indemnify Burden's up to £200, as agreed between the parties, in respect of a claim by a sub-contractor against the builders.

It was stated that in settling the action so far as two other contracts were concerned, the Corporation had paid Burden's £5,000.

The Referee awarded the builders the costs of the action. The Corporation were granted a stay of execution for 28 days for consideration of an appeal against the Referee's judgment.

The Referee said the case had occupied 53 days' hearing and must have involved very heavy expenses. The plaintiff company, of which Mr. R. B. Burden was managing director, and Mr. A. G. Byfield another director, had claimed £55,819 from the Corporation in respect of three contracts made in 1949. One was a housing contract for the erection of 80 houses on the Swansea Penlan Housing Estate. They had been paid £115,119 and claimed a further £19,915. The

second was a contract for the rebuilding of the B.B.C. buildings in Alexandra Road, Swansea, for which they were paid £21,732 and claimed £7,095. The third was a contract for the erection of the East Penlan Primary School at Swansea, in respect of which they claimed £30,512.

On the 16th day of the action, he said, it was stated that the Housing and B.B.C. contracts had been settled, but the terms were not then disclosed. The hearing continued on the School contract.

The Referee said the builders claimed that the Corporation wrongfully interfered with, and obstructed the issue of, an interim payment certificate. Accordingly the builders terminated the contract and withdrew their men from the site. They claimed the value of the work done and the materials supplied, losses and damages.

The Corporation denied the charge, contended the builders had wrongfully determined the contract and, in consequence, the Corporation determined the contract by notice. They said the builders were not entitled to any payment at the date of the writ.

Burden's also claimed damages for losses suffered by the flooding and water-logging of the site due to work carried out by the Corporation before the contract began. They alleged the Corporation had broken or destroyed land drains. They also alleged that the Corporation had been in breach of contract in regard to instructions the Borough Architect should have given respecting sub-contractors and suppliers. The Corporation denied these allegations.

A claim for damages on the ground that the Corporation had disturbed the local labour market by paying their own employees higher wages was abandoned, the Referee said.

By an interlocutory order, the builders' claim for £18,407 due to them on the

contract had been struck out, leaving the sum involved at about £12,100.

The main issue, he said, was whether the contract was properly determined by the builders or the Corporation.

Mr. H. T. Wykes, the Borough Architect, acted as surveyor for a time for the Corporation while Mr. A. M. W. Poston was employed as surveyor by Burden's. The best method, he said, was for the surveyors of each side to meet, but they did not. The builders' figures in the applications for certificates were accepted by the Corporation. Interim certificates, the Referee said, were not final but subject to revaluation in the final account on completion of the contract.

In 1951 Messrs. Oswald Parratt, a London firm of surveyors, were appointed to deal with the certificates and Mr. W. V. Hawkins, a partner in the firm, was appointed as surveyor. Burden's refused to acknowledge the appointment. On Sept. 27, 1951, they applied for the 21st certificate, claiming £9,636.

"There is no doubt that at this time the builders were finding it difficult to finance this work," the Referee said. "They said that if they did not receive the certificate by Oct. 11, the Corporation would be in breach of contract. They were wrong."

Mr. Hawkins valued the work done and materials on the site at £66,000, his honour said. The plaintiffs had already been paid £71,000, it was said. Mr. Hawkins recommended the payment of £1,287 with directions that £672 of this should be paid to sub-contractors. This was a mistake.

Burden's did not agree with this figure and threatened to withdraw from the site as the certificate was overdue.

The Corporation gave the builders no information on which they could check

[Continued on page 153]

## LIBRARY NOTES

## Standardization

THREE pamphlets on this subject have been issued almost concurrently by two important organizations. First, B.P.C. Action Pamphlet No. 4 published by the British Productivity Council (21, Tothill Street, London, S.W.1. Price 9d) and secondly, Standards in Industry, Planning Vol. XXI No. 381 and the British Standards Institution, Planning Vol. XXI No. 382 published by Political and Economic Planning (16, Queen Anne's Gate, London, S.W.1. Price 2s 6d each).

The first two of these three pamphlets cover somewhat similar ground although emanating from organizations of such different characters. Both organizations reach somewhat similar conclusions, namely, that an increase in standardization is necessary for the wellbeing of the nation's industrial output. The two P.E.P. issues are published together and are complementary to one another as, unlike the B.P.C. document, the explanation of the B.S.I. and its working as the body which co-ordinates work on standards in this country on a national basis is separate from the subject matter of what that work is.

P.E.P. draws attention to the popular misconception that standardization of manufactured goods results in regulation or drab uniformity and suggests that the resistance to the introduction of standards in many industries is based on a misunderstanding of what standards imply and consequently the possibilities of improving industrial efficiency through standard practices of one sort or another do not get as much attention as they deserve. It may be that the building industry is a greater user of standards for materials and products than quite a number of other industries, but none the less there seems to be ample room for more standards and greater use of existing standards in certain spheres of manufacture for building applications and consequently these publications should be carefully digested by those who serve the industry.

The B.P.C. document is rather more concise and, as is stated in the Foreword, is directed not so much to the larger manufacturer as to the smaller firm and junior members of management. The document stresses that modern industry could not exist at all without a high degree of standardization which has accounted for such spectacular savings by cutting out unnecessary variety and has thus permitted industries, such as the radio industry, to offer the public products

at prices they can afford, but at the same time maintaining quality levels as good as can be achieved in any other respect. The report, as the P.E.P. similar one, points out that many smaller manufacturing firms and consumers still do not realize the benefits which would accrue if greater attention were to be paid to increased standardization. This report particularly draws attention to the fact that standardization can help greatly by providing longer runs and by cutting down the unproductive time spent in changing and re-setting machinery. Also mentioned are the reductions in stocks which have to be carried at all stages from manufacturer to user. As an industry it would seem that building could still benefit greatly by reduced ranges of products which many firms offer. One has only to examine the average catalogue received in an architect's or builder's office to realize that the ranges available are often quite unnecessarily large and that some benefits would certainly accrue if reductions in these ranges were made.

One very important factor stressed in the B.P.C. report is that standards may be used for setting a level of quality products which is a procedure with which the building industry is now fully aware since it was adopted in the Model Building Bye-Laws and appears to have worked satisfactorily and consequently is one which might well be extended.

Both reports make some reference to the unwillingness of some manufacturers to change their production to line with British Standards and it is in this sphere that further attention to the benefits of standardization should be applied. The B.P.C. pamphlet is much better presented and although more brief, which may be an advantage to many potential readers, has the advantage of setting out the information and conclusions more clearly than the combined P.E.P. reports which discuss the subjects at rather greater length. Both reports make reference to international standardization, which, while it may be of little interest to much of the building industry, remains of vital importance to all those who export or work in other countries.

It is to be hoped that these three documents will be widely distributed and read by all who manufacture for the building industry, as there seems to be little doubt that when standardization is used at company, or better at national level, there are advantages to be gained which can contribute to maintaining, or even lowering, building

costs, a matter of such vital importance to the industry itself and to the nation generally.

P. C.

## Motels

By Geoffrey Baker and Bruno Funaro; Reinhold Publishing Corp. New York. 1955. \$12.00. (pp. 273, c.600 illustrations.)

THE Americans have, as a high-pressure adjunct to the development of the motor car and the high-speed trunk road, taken to "motels" in a big way. They have become motel-minded.

The new development threatens, except for the larger towns and the resorts, to oust the hotel; yet signs are apparent that the swing of the pendulum is already upon us, or rather the Americans. For the motel is now becoming bigger and better, extending itself from one storey to three or four, acquiring more community facilities and shortly may be back at the hotel from whence the movement started, though perhaps the results may not be quite the same.

The name "motel" is, perhaps, somewhat of a pity; because its hybrid nature is born of pure and immediate expediency and leaves but little room for the absorption of the next phases of development, for example, the "airtel," the "helicoptel" or the "seatel," to say nothing of a possible "spacotel." However, it seems to have come to stay and has reached this country in several spots. The present book tells us that the word may be traced back to the assembly-line technique of Henry Ford and that it is now finally sanctified by Webster, so it must be all right.

The publishers say that this book marks the coming of age of the motel; though this may be true of the U.S.A., the type is comparatively new to this country. So far the caravan site has proved by far the most difficult problem and we can only hope that the experience of America and the coming of this book may influence the problem in this country if it is extended to the roadside motel as a concomitant of a new trunk-road expansion.

This book is like a number frequently produced in the States on specialist subjects. It is a model of survey and summarization of a building type. It is well produced, with excellent illustrations (even though to us, with our rising book prices, not cheap). It treats of the whole subject in a straightforward way, from the problems of site location and site layout, on to detail planning and furnishings, with ample illustrations of both executed work and theoretical diagrams. It even has hints of what not to do; even so the book probably omits the worst of the horrors of the American highroad; these only occasionally grin through the pages and sometimes appear in the corners of insufficiently cut photographs. A book on so new a theme should probably give fuller space for the awful-warning side of



the subject. Perhaps here we have a greater and growing regard for the countryside.

If the development of this type of accommodation is to become a feature in this country, this book should certainly be in the hands of any architect called upon to prepare or to carry out schemes.

S. R. P.

### Italy's Architecture Today

By Carlo Pagani. Published by Alec Tiranti, Ltd., 72, Charlotte Street, London, W.1. Price 3gns.

PAGANI'S book on Italian contemporary architecture is the only book published in Italy after the war on this subject. Nearly 300 pages of photographs and drawings deal with the contemporary Italian architecture covering the works of nearly 100 designers. Each building is discussed from technical and aesthetic viewpoints and is illustrated by photographs and drawings with a photograph and bibliography of the designer in each case. The text is in Italian and English and the standard of production is extremely high. Photographs and drawings are generally excellent but the general impression is that the author has not been too selective in his choice of material and some of the buildings might well have been omitted, giving space for a more detailed examination of some of the better work. The editing of the English text has been carelessly carried out and there are many bad translation mistakes which could well have been avoided if care had been taken in this matter.

The general standard of Italian post-war architecture is extremely high and some of the buildings show considerable ingenuity in design and engineering with a very real appreciation of both form and pattern in the design of the structure. Much of the work is either fairfaced concrete or rendered surfaces reminiscent of the 1930 era, but students should remember that the Italians are capable of producing superb concrete and renderings which stand up to normal wear without noticeable failure. Much of this is due to high standards of application but a great deal can be credited to the climatic conditions of the country which are more favourable to rendered surfaces than those of Great Britain. The introduction to the book is by Richard Neutra who confesses to a bias toward Italian architecture because of his love of Italy and her people. Architects in this country who have a similar affection for Italy and their Italian architect friends will appreciate Richard Neutra's point of view and will also appreciate the publication of this book which is an essential addition to the bookshelves of every contemporary architect who is anxious to keep in touch with the work of other like-minded designers abroad.

The buildings illustrated are divided

into the following classes: Villas, Flats, Social Buildings, Office Buildings, Hospitals, Hotel Buildings, Exhibition Buildings, Commercial Buildings, Sports Buildings, Industrial Buildings and Transport Buildings. One important omission is religious buildings and this can either mean that no religious buildings have been erected in Italy since the war, although this seems to be unlikely in view of the predominant Catholic nature of the country, or on the other hand it may be that the standard of design of Church buildings is not considered high enough for inclusion in the book. Whichever may be the case this gap is an unfortunate one and it is hoped that it will be filled if any later edition of the book is published. Many of the buildings illustrated are well known but the general standard is extremely high and there are many new buildings illustrated which have not been seen in the English technical journals before.

E. D. M.

### Alvar Aalto

By Eduard and Claudia Neuenschwander. Published by Architectural Press, Queen Anne's Gate, London. Price 50s.

ONE of the joint authors of this book worked in Aalto's office for three years and during these years Aalto became absorbed with the design of large-scale projects. He deliberately destroyed many of his sketches, and original plans and photographs of some of these works are extremely rare. Because Eduard Neuenschwander was working in daily contact with Aalto he was able to collect and preserve original material which was later prepared for publication and this book shows many of the works and projects completed from 1950 to 1952 as well as a number of earlier buildings by Aalto. The first part of the book gives an insight into the Finnish countryside, described the Finnish Bath-house and illustrates by means of photographs and drawings some of the fine traditional architecture of Finland.

The major part of the book deals with some of the larger scale building projects designed by Aalto and provides drawings, photographs and a brief description—enough to whet the reader's appetite but not enough to give detailed information on the projects in question. The book is an extremely valuable documentation of Aalto's later work and interests and reveals his remarkable insight into the use of traditional building materials, particularly brick and timber. Some of the photographs showing his buildings in their natural setting are truly magnificent and it is unfortunate that more detailed material is not available so that a careful study could be made of these fascinating buildings. Many of Aalto's original sketches are reproduced and it is to be hoped that the publication of more of his later work will become possible so that his more recent buildings can become as well

known as the earlier buildings in Finland which were amongst the important landmarks in early contemporary architecture.

E. D. M.

### Materials and Methods in Architecture

Published by Reinhold Publishing Corporation, New York. Price 10 dollars.

THIS book is a compendium of technical articles selected from *Progressive Architecture* and edited by Burton H. Holmes, the Technical Editor. It is of particular interest in that it covers a wide range of subjects many of which are of particular importance to-day. These include under general headings construction methods, construction materials data, and environmental control. Of particular interest are the series of articles concerning construction methods as these give considerable detail of the various methods of curtain wall construction in steel and aluminium which have been tried out in America. Much of the information will be of value to architects in this country and the material is presented in a concise and readable manner, amply illustrated by drawings and photographs. While it is possible that some of the information may date very quickly, the general bulk of this book provides an excellent summary of American practice in relation to present-day techniques and materials and can fill a useful gap on many architects' bookshelves. Reading through the articles one realizes that in certain fields, particularly for example in relation to prestressed concrete, we are in this country considerably ahead of American techniques and the publication of a similar volume from specially selected articles over the past two years from any one of the English architectural journals would make an excellent reference book and bring together useful material which otherwise tends to be overlooked in the mass of technical journal publication. The fact that most of these articles and their illustrations have been published before should make it possible for such a book to be produced at a reasonable price and would undoubtedly form an interesting companion volume to the American one, and one which could be repeated every few years and together build up into a useful library of reference material for the practising architect and for the architectural student.

E. D. M.

### Building Check List

By B. J. Small. Published by Reinhold, New York, and Messrs. Chapman & Hall, 37, Essex Street, London, W.C.2. Price 28s.

THIS specification check list is by the author of "Streamline Specifications," reviewed recently in the *A. & B. N.* and consists of a series of individual check lists covering the range





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The Carlisle Plaster & Cement Co., Cocklakes, Carlisle

Continued from page 152

of a typical American Building Specification. The system of such check lists is quite common in the United States but one which has not yet been developed in this country. The book covers site work, structural work, etc., with check lists for equipment for different types of job, contract check lists and useful tips to job captains with a resumé of A.I.A. general conditions of contract. The publication is of general interest but of no practical value to English architects although a publication of this sort might be of use in an office as a general check against the contents of a specification for building. E. D. M.

### Building Construction: Three Volumes in One

By W. B. McKay. Published by Longmans, Green & Co., Ltd., Price 45s.

IT must be said at once that for the architectural student McKay's Building Construction in three volumes, the familiar yellow, red and blue limp covers, are the best general textbooks available at the moment.

For an outlay of 14s a time the student gets a good proportion of the knowledge needed for the R.I.B.A. Intermediate, though the *understanding* will only come when he has taken some matters much further in application to actual designs. An understanding of pitched roof design, which is so useful a training in thinking in three dimensions, cannot come out of the chapters on carpentry where methods of strutting, bracing or trussing portions are not much discussed and the student gets the idea that a King Post truss is the solution of all roofing problems. Even if it is thought necessary to keep off "economy" carpentry such as the T.D.A. roof designs, there is some very sound traditional construction in Victorian houses which are good examples of intelligent and economical use of wood.

The trouble, of course, is that books like this cannot give the right approach for students coming to this from different directions. However desirable it may be that young architects, surveyors and builders should have the same training, they are in fact studying for different exams. with different syllabuses. This book is primarily for builders and leaves out a lot which would be of value for architects and puts in much which is interesting but not essential for them.

Now the three volumes are available bound together in a stiff cover for 45s, "in convenient form for reference." Useful for reference for certain things, perhaps, such as the excellent tables of building stones and timbers, or to look up bonding, but used frequently as a reference in an office such a textbook can be dangerous in perpetuating absolute detailing, and used as an excuse for straight and hard thinking.

D. N.

### BOOKS RECEIVED

*B.N.F. 1930-1955.* By The British Non-Ferrous Metals Association. Published by Richard Clay & Co., Ltd.

*Book-keeping for Small Traders.* By John Unett, A.C.A. Published by Iliffe & Sons Ltd. Price 12s 6d.

*50 Modern Bungalows.* Edited by Felix Walter, F.R.I.B.A. Published by The Architectural Press. Price 18s 6d.

*Herefordshire.* A Shell Guide. By David Verey. Published by Messrs. Faber & Faber, Ltd. Price 12s 6d.

*The Japanese House and Garden.* By Tetsuro Yoshida. Published by The Architectural Press. Price 60s.

*London Master Builders' Association.* Handbook, 1955.

*Progress in Cargo Handling.* Papers read at the I.C.H.C.A. General Technical Conference, Naples—1954. Published by Iliffe & Sons Ltd. Price 50s.

*Quantities and Estimating for Building Technicians.* By John F. L. D'Este, F.I.A.S. Published by E. & F. N. Spon, Ltd. Price 9s 6d.

*Register of Surveyors, Land Agents, Auctioneers and Estate Agents, 1954-1955.* Published by Thomas Skinner & Co. (Publishers), Ltd. Price £2.

*Studies in the Functions and Design of Hospitals.* The report of an Investigation sponsored by the Nuffield Provincial Hospitals Trust and the University of Bristol. Published by George Cumberlege, Oxford University Press. Price 63s.

*Ten Books on Architecture.* By Leone Battista Alberti. Published by Alec Tiranti, Ltd. Price 35s.

*Structural Analysis. The Solution of Statically Indeterminate Structures.* By W. Fisher Cassie. Published by Longmans, Green & Co. Price 18s.

*Steel Designers' Manual.* By Gray, Kent, Mitchell, Godfrey. Prepared for the British Steel Producers Conference in Conjunction with the British Iron and Steel Federation. Published by Crosby Lockwood & Son, Ltd. Price 50s.

*Simplified Site Engineering for Architects and Builders.* By Parker & MacGuire. Published by Chapman & Hall, Ltd. Price 40s.

*National List of Merchants. Building Material Merchants.* Compiled by: British Federation of Plumbers' Merchants. Building Industry Distributors. National Federation of Ironmongers—Builders' Supplies (Wholesale) Section.

### RETIREMENT

Mr. Harry Stafford retired this year after more than 30 years as Chief Building Surveyor to Coventry Corporation, and great appreciation of his work was shown by members of the Coventry Association of Building Trades Employers and the Coventry Society of Architects when they presented him with an engraved salver.

The presentation was made jointly on behalf of the two bodies by Mr. J. Monsell, president of the Building Trades Employers' Association, and Mr. S. Greenwood, of Messrs. Hattrell and Partners, architects, who is chairman of the Coventry Society of Architects.

### M.o.H. Circular P.T.B.44

The Ministry of Health has issued a memorandum (P.T.B. Circular 44), which sets out increased salary scales for the staff of the Works Organization of Regional Hospital Boards agreed by the Professional and Technical Council "B." The circular consolidates and supersedes P.T.B. Circulars 19 and 40.

### Breach of Contract

Continued from page 150

the certificate sum. The Town Clerk was satisfied that the builders' valuations were unfounded and that Mr. Hawkins' figure was a proper valuation.

The Referee said the builders gave notice on Oct. 30, 1951, terminating the contract and withdrew their labour on Nov. 2. The Corporation then served the builders with a notice determining the contract.

Burden's claimed that the value of the work done and the materials on the site was £88,492 and that they had been paid £72,333, leaving about £16,000 due to them.

His honour held that the Boro' Architect was justified in certifying the amount recommended by Mr. Hawkins, but the direction for making payments to sub-contractors was not justified. That was due to a mistake in the Quantity Surveyors' Dept. He thought Mr. Hawkins made his valuation in too great a hurry and had not been supplied with all the information required.

The Referee held that the issue of the certificate had been interfered with and obstructed by the mistake but not wilfully. The builders' notice to determine the contract was valid, but he thought it was regrettable the plaintiffs had not supplied Mr. Hawkins with full details of their valuation.

"I think Mr. Burden is chiefly to blame for the lack of co-operation between the parties," he said. "He has been described as dominating, self-opinionated and unco-operative. I think that is a correct description."

He added that the main cause of this litigation was the failure of the Corporation to take steps to measure or value the work during its progress. They undertook building operations that burdened their Quantity Surveyors' Dept. They should have instructed private quantity surveyors.

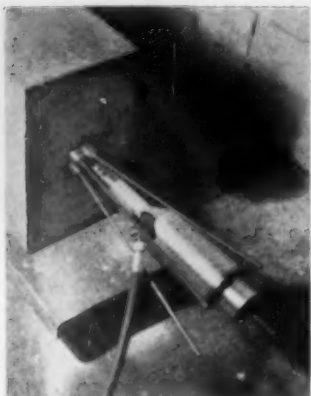
His honour said the Corporation had not committed a breach of the contract by carrying out work on the site before the builders, but there were two or three drains damaged. The chief reason for the flooding of the site was the inclement weather, exceptional even for Swansea, during part of the contract. He awarded the builders one-tenth of their claim in this respect—£385.

Regarding the charges in connection with the architect and sub-contractors, he awarded £1,019 damages. He said he would make an order for indemnity in respect of the claim by Rock Asphalt, Ltd., against Burden's, if desired.

After an adjournment, Mr. J. Stuart Daniel, for the builders, said the Corporation had agreed to indemnify Burden's up to £200 for any claim established against the builders by Rock Asphalt, Ltd. They had also agreed to pay the costs on all issues. In regard to the Housing and B.B.C. contracts the Corporation had paid £5,000. He asked for an award of five per cent interest on the £1,404 damages. This was granted.

## INDUSTRIAL NOTES

## MOSAICS



PLANT  
HAND TOOLS  
E 3/42

The P.S.C. one wire system of prestressing has been developed by P.S.C. Equipment, Ltd., 96, Victoria Street, London, S.W.1. The system provides simple wire anchorages either alone or in multiples. Each wire is wedged in a tapered hole by means of an open-slotted one-piece sleeve. The female part of the anchorage can be embedded in the concrete of the structural member. For multiple wire cables there is a sheath provided to avoid wires crossing each other. The tensioning equipment has the hand pump and pressure gauge housed in a portable box and the 7lb jack is the only item to be moved from wire to wire. There is a direct reading extension scale and a quick release grip enables the wire to be attached or released from the jack in a few seconds.



SERVICES  
LIGHTING FITTINGS  
B 1/87

Illustration shows a flush pattern switch socket and fused plug with pilot light which is one of the "Mutac" range by General Electric Co., Ltd., of Magnet House, Kingsway, London, W.C.2. These are produced in flush and surface patterns both in 13 and 15 amp. ratings. The pilot light is fitted below the switch dolly and is a sealed unit housing a 200/250 volt neon tube and resistor. In these units a Mutac A.C. switch and 3-pin plug, which in the 13 amp. unit is fused, are housed in a cast iron box tapped with one 3/16 in E.T. hole and brass front plate. Standard finish is Florentine bronze.



PLANT  
CONCRETE MIXING  
E 8/10

The "Turnabout Batch Weigher" is a new piece of equipment by Winget, Ltd., Rochester, Kent. Two independently mounted 10 cu ft skips permit loading of either, within an arc of 180 deg. while the other is being discharged into the mixer hopper. It has been designed to feed 7NT, 10NT and 14NT mixers and can feed two in tandem. Discharge levers operate downwards. Dial gauges will weigh up to 1,440lb. Mounted on pneumatic-tyred wheels it has a towbar to facilitate handling. Lubrication is by grease gun to all bearings. Weight 12 cwt 1 qr 16 lb.



SERVICES  
SPACE HEATING  
B 3/71

The "Newton" coke and coal burning fire has a reversible chrome steel heat resisting bottom grate. Made in four sizes, 12, 14, 16 and 18 in wide, and five colours by Newton Chambers & Co., Ltd., Light Castings Dept., Thorncliffe, Nr. Sheffield. Fully portable, a special gas igniter may be obtained.

● Liverpool Cathedral's Building and Endowment Appeal is to receive £3,500 from the Dunlop Rubber Company.

● Plaster Products (Greenhithe), Limited, have opened a London office at 55-56, Windsor House, Victoria Street, S.W.1—centrally situated for Building Trade interests—the telephone number being Abbey 6500.

Full technical service is available, at this office, which is in charge of Mr. J. T. Freeman, Senior Technical Representative.

● What is claimed as a speedier and more scientific method of laying foundations for houses is now being employed on building sites at Cambuslang, where Lanarkshire County Council is at present erecting 144 flatted houses. Ready-mixed concrete, supplied by Jaeger System Concrete, Ltd., from their Bishopbriggs depot, is being poured direct into the foundations.

The concrete is delivered to the site by a fleet of trucks specially designed for controlled mixing of concrete. Drivers stop when within about a mile of the site and start the rotation of the drum on the back of the trucks. By the time they reach the site, the concrete is at the correct stage for use. Jaeger System Concrete, Ltd., claim to be the only firm supplying ready-mixed concrete in Scotland.

● The Brightside Foundry & Engineering Co., Ltd., announce the formation of a new wholly owned Subsidiary Company, Brightside Heating & Engineering Co., Ltd., which has been formed to take over the continuously expanding activities of its heating, air treatment and pipework Division.

Mr. Ambrose Firth has been appointed Chairman and Mr. T. C. Firth, Mr. W. S. Richards and Mr. W. B. James, Directors.

● An exhibition of working drawings of the new Harrow Technical College, together with samples of fixtures and fittings to be incorporated in the building during construction, is being held until the end of August at the Ministry of Education offices at Curzon House, Curzon Street, W. The exhibition has been organized by the Middlesex County Architects' Department.

● Taylor Woodrow, Ltd., of London, building and civil engineering contractors for the world's first full-scale atomic energy power station, nearing completion at Calder Hall, Cumberland, England, are among the exhibitors at the International Atomic Energy Exhibition, Palais des Expositions, Geneva, August 8 to 20 (Stand 151, Hall "D," 1st floor, British section).

On 1,000 square feet of floor space the construction of Calder Hall will be demonstrated by photographic enlargements up to 17ft by 11ft in size.

● Corrosion Proof Products, Ltd., have moved to larger offices at Sunleys Island, Great West Road, Brentford, Middlesex, Tel. Ealing 8243 (3 lines), in order that they may have greater facilities to handle their increasing turnovers both in the U.K. and overseas.

## CORRECTION

In the issue of July 21, page 88, the "Fenton" bath, 6, is made by W. H. Micklethwait & Co., Ltd., of Clough Works, Rotherham, Yorks.





*This recessed lighting scheme of the canteen in the American Embassy was designed by Philips*

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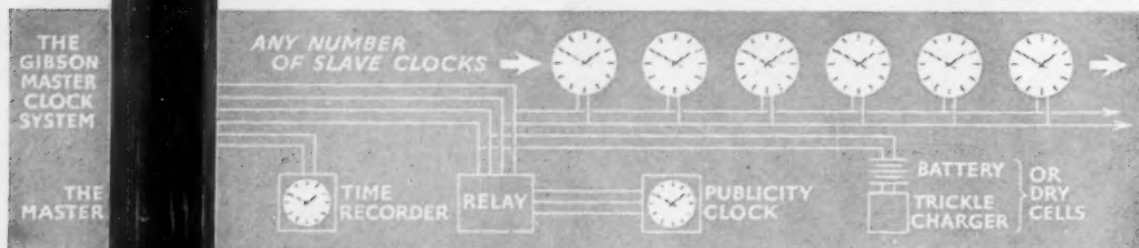


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302



**Gibson**  
CLOCKS

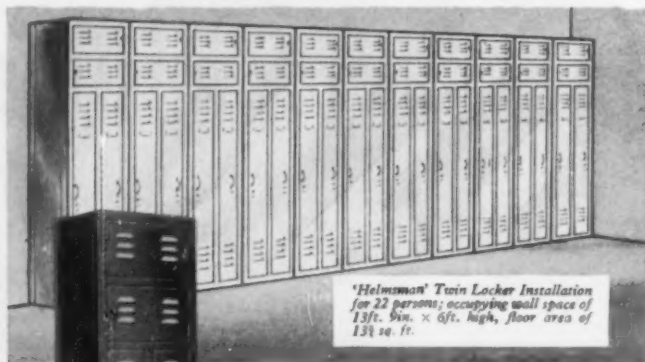
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in which one 'Master' controls any number of 'Slave' clocks. This method is very accurate and has the advantage of being independent of power fluctuations. Available designs are good—specific designs can be carried out.



304

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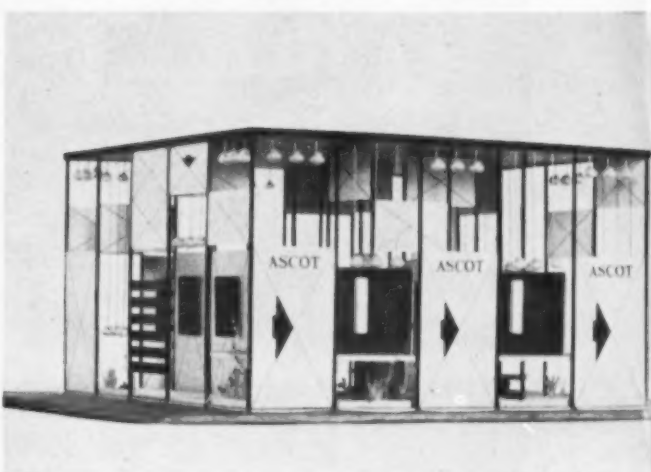
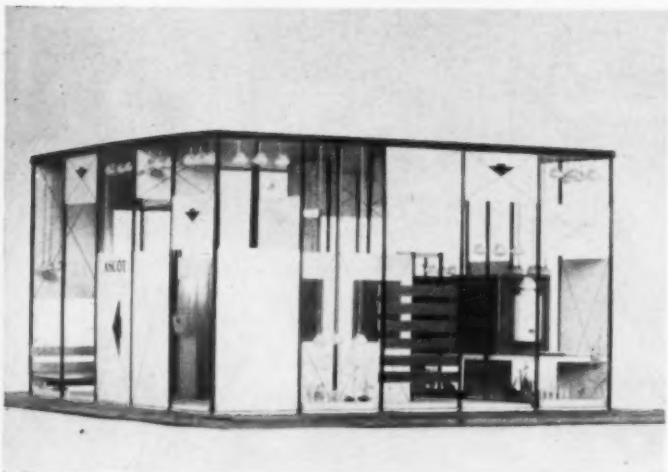
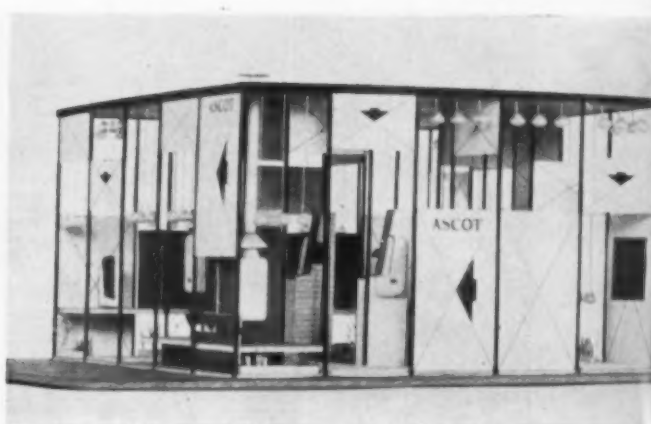
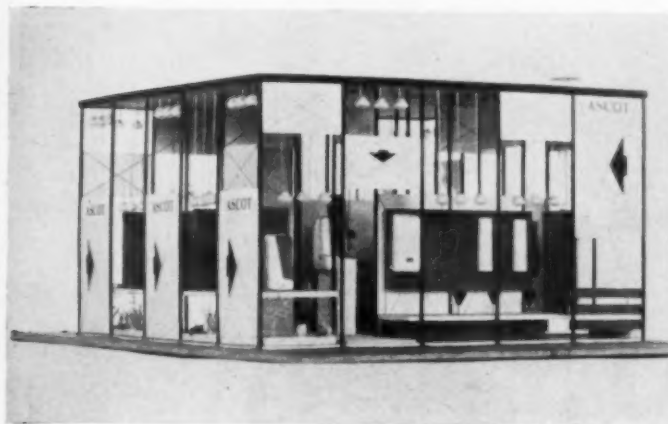
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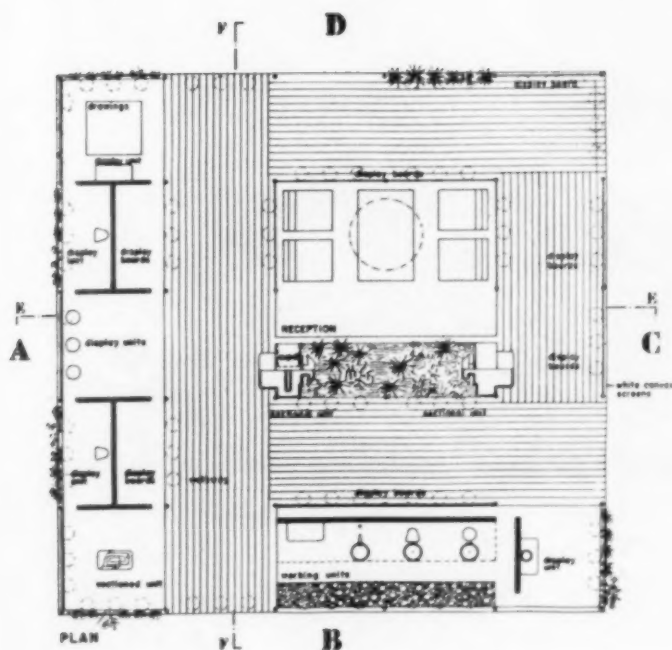
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Model of winning design, four views. Top L: elevation B, top R: elevation C, bottom L: elevation D, bottom R: elevation A. (See overleaf for 2nd and 3rd prize-winning designs)

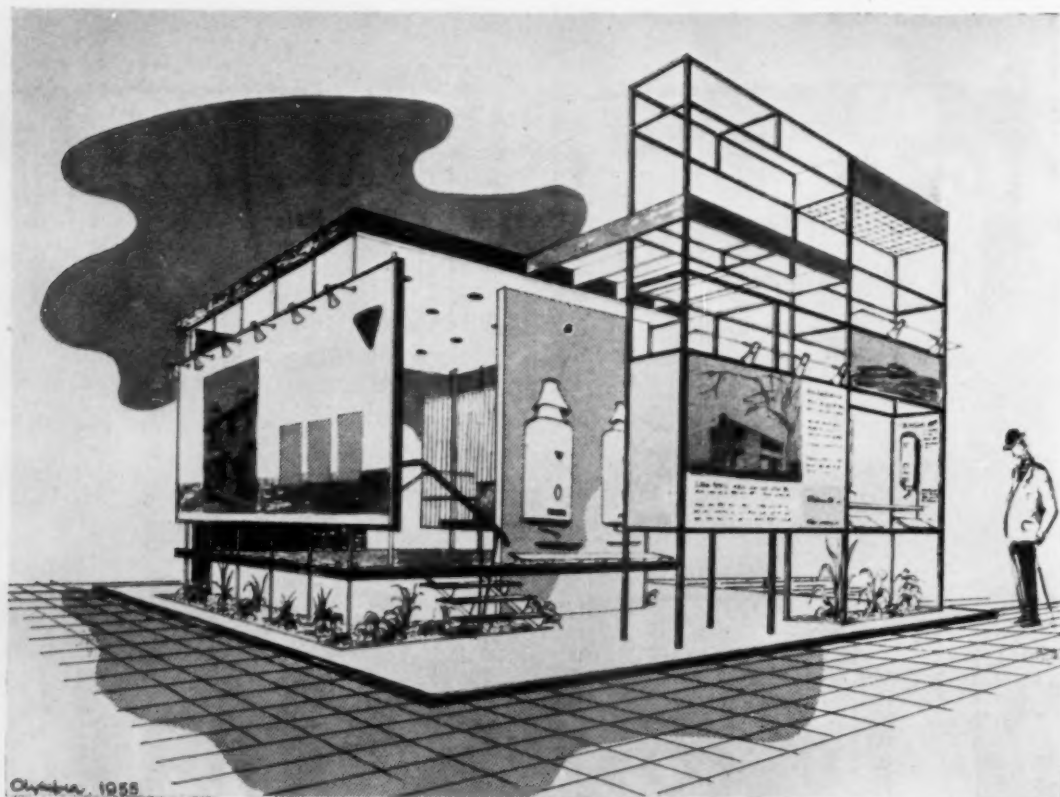


## ASCOT STAND Competition

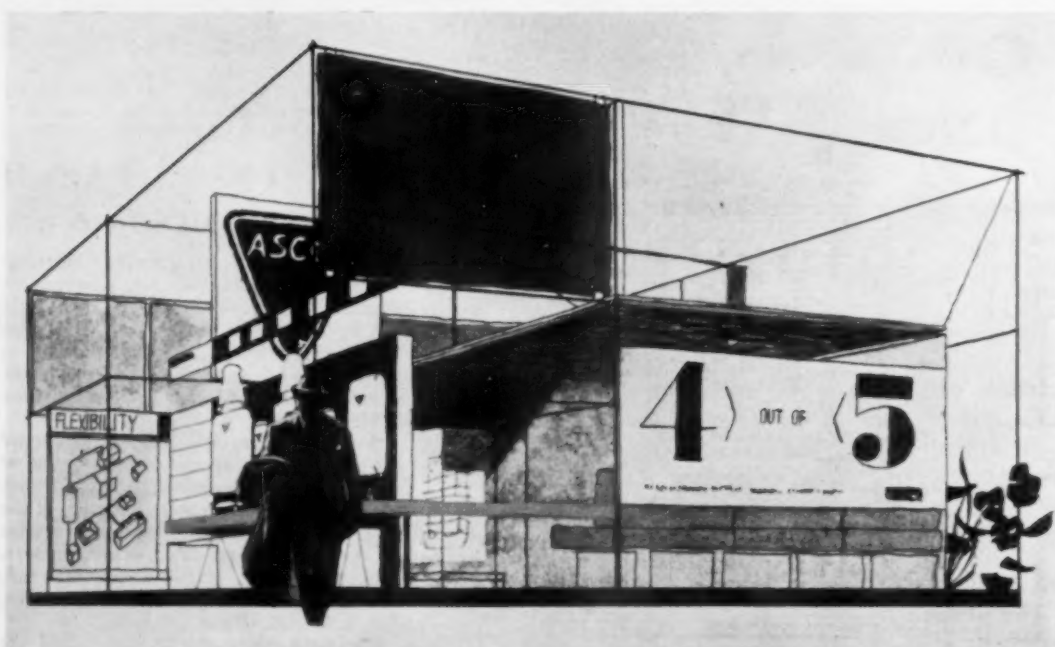
AT an informal presentation ceremony at the Building Centre, London, on July 26, the Earl of Limerick, G.B.E., K.C.B., D.S.O. Chairman of Ascot Gas Water Heaters Ltd., handed cheques to the winners of competition to design the Ascot stand at the Building Trades Exhibition in November.

Dennis E. Pugh, A.R.I.B.A., a 27-year-old London architect received the first prize of 200 gns for his design, of which his own scale model and plans were exhibited at the Building Centre. Also on show were the plans of the second and third prize winners, respectively Mr. Hugh R. Brady, B.A. (Arch.) A.R.I.B.A., and Mr. W. F. Mullins, A.R.I.B.A., A.A. (Hons) Dip.

Mr. Pugh whose design was judged the best of the 160 entries has been on the staff of Architects' Co-partnership at 44 Charlotte Street, W.1 since 1951. He was trained at the Northern Polytechnic.



Perspective of the design by Hugh R. Brady awarded 2nd prize of 100 gns.



Perspective of the design by W. F. Mullins awarded 3rd prize of 50 gns.

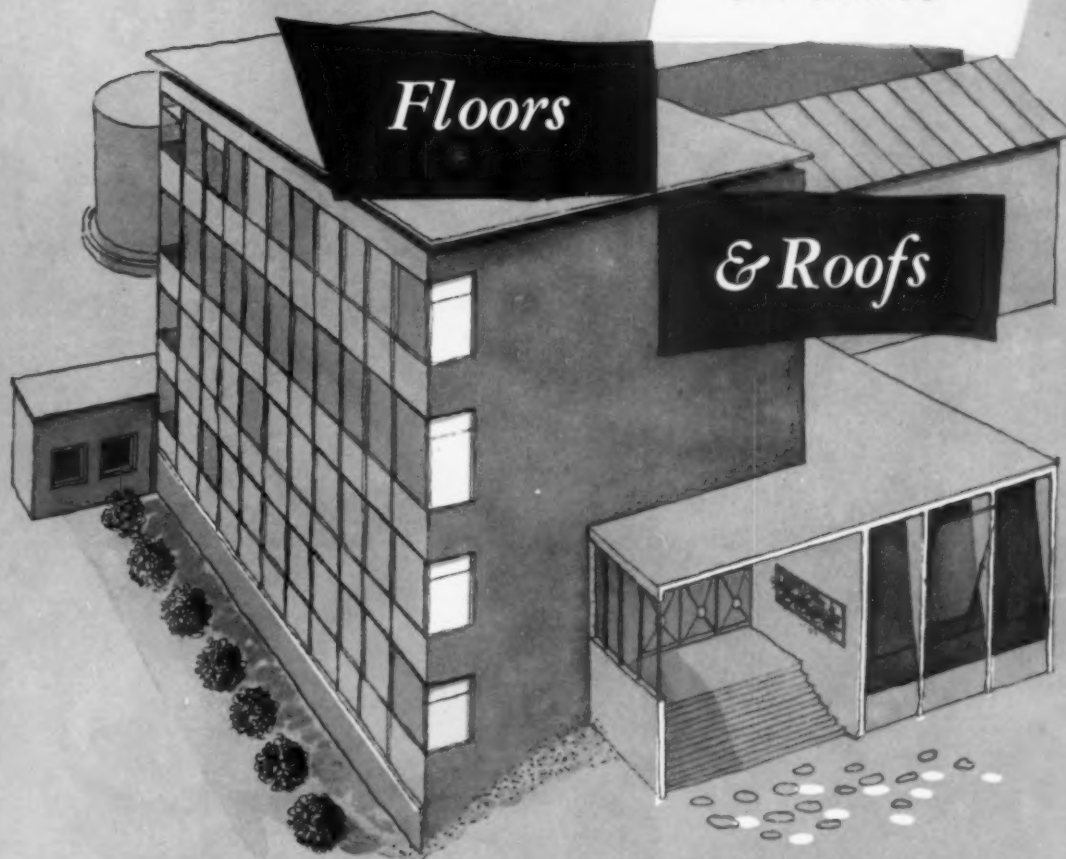
COMPETITION FOR DESIGN OF STAND FOR ASCOT HEATERS

# SIEGWART

*Precast*

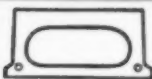
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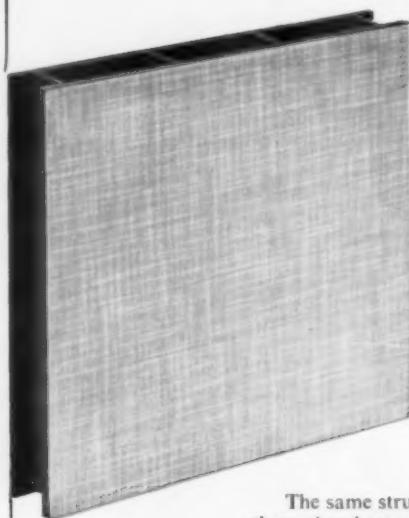




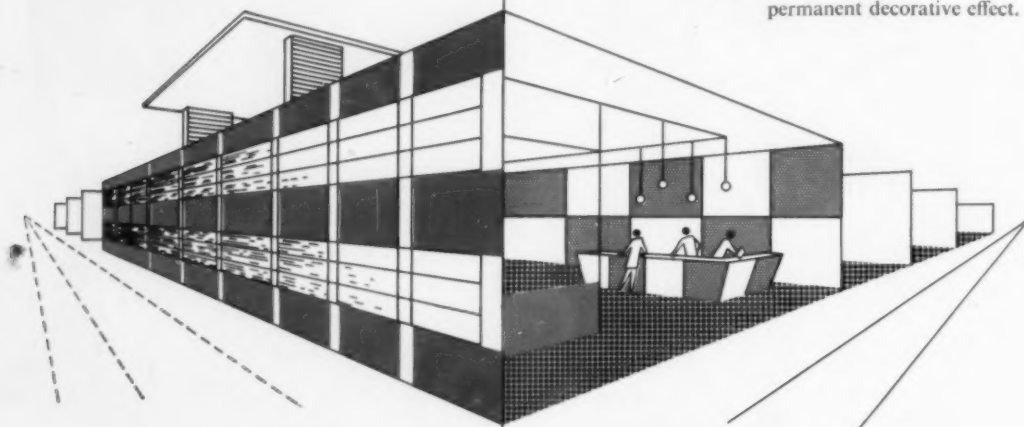
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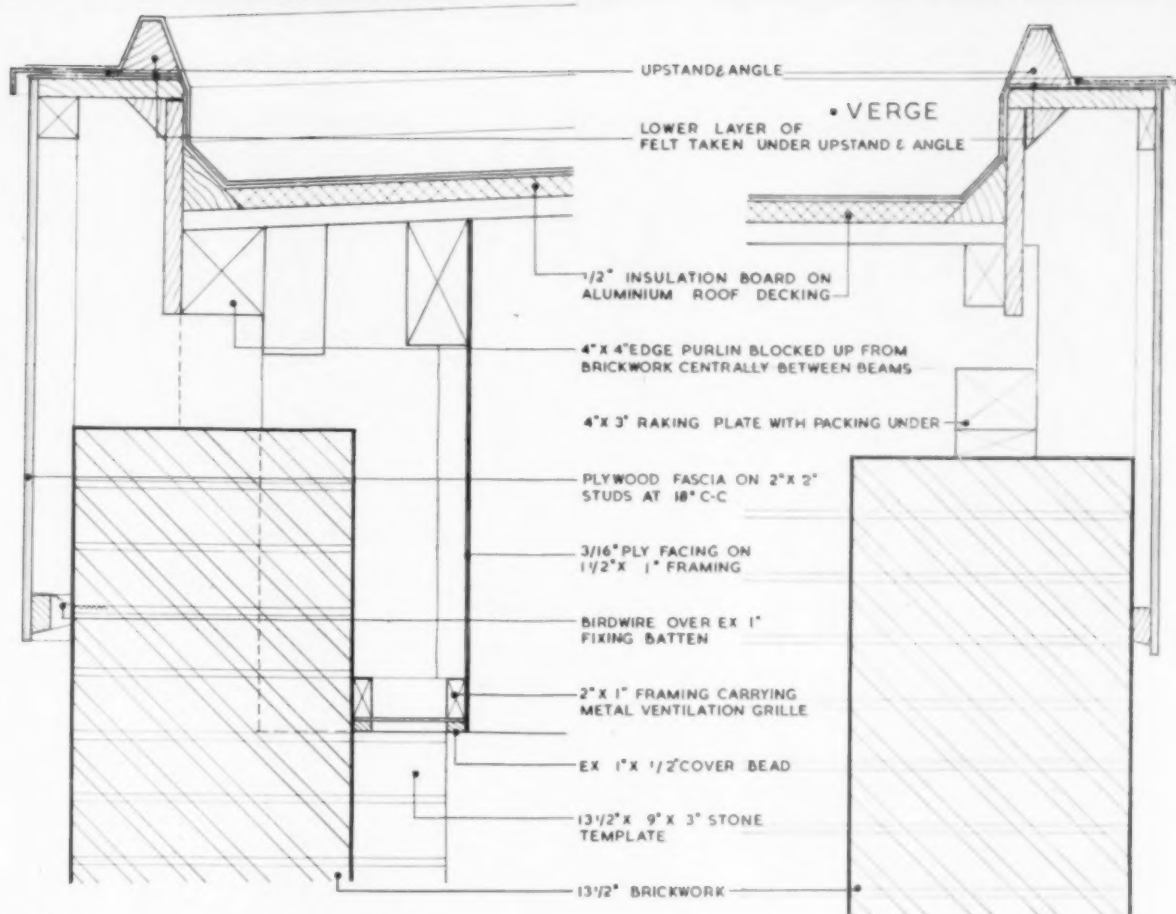
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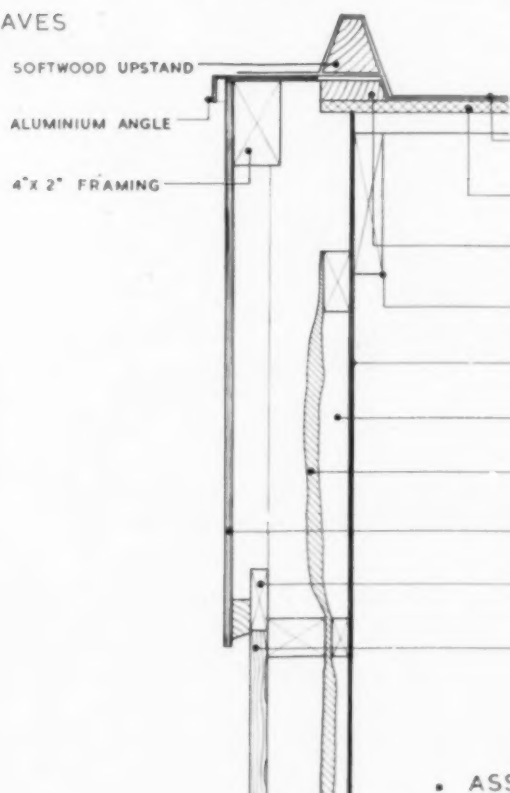
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• EAVES



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AT THE BACK OF THE STAGE



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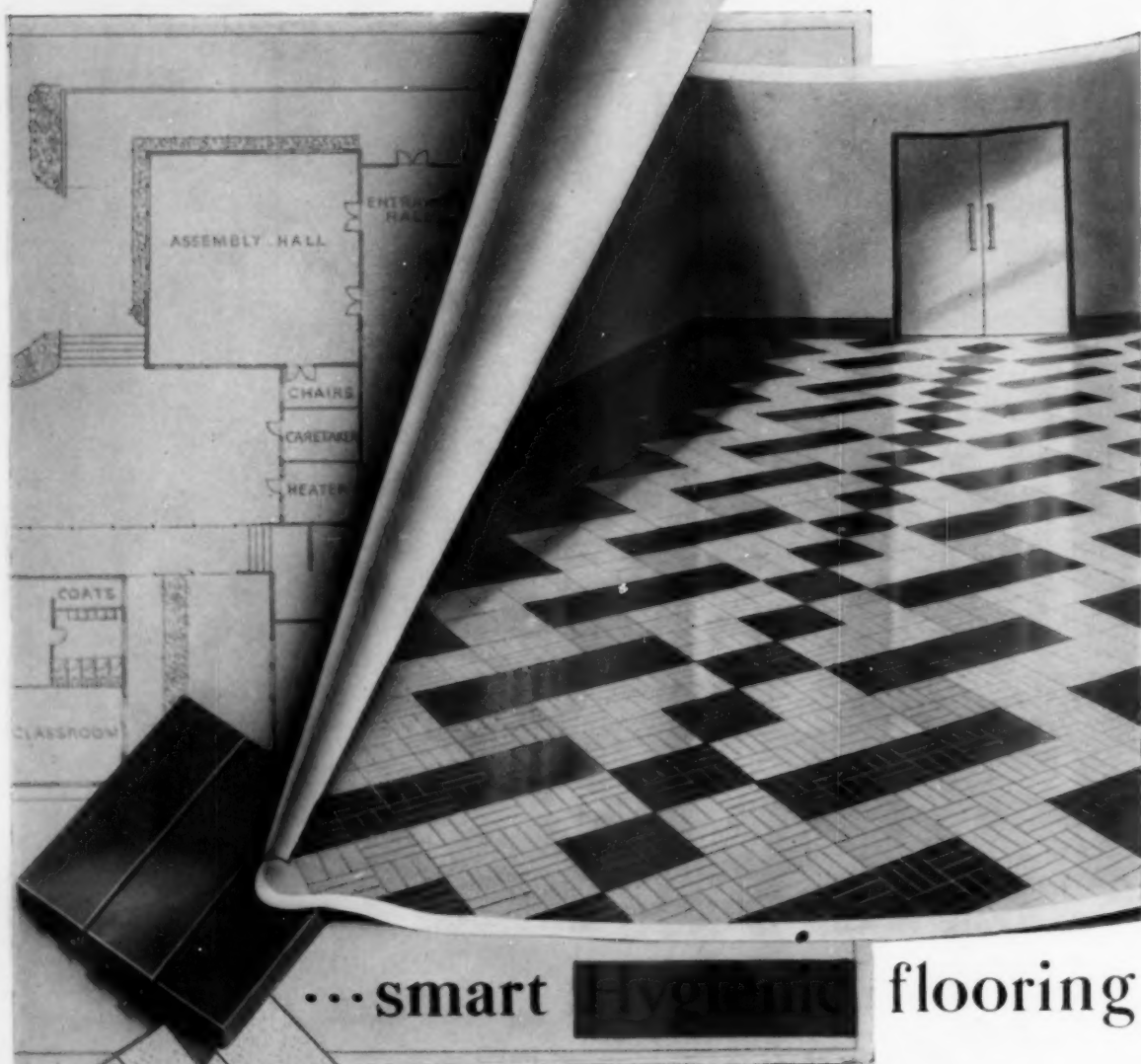
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Notes below give basic data of contracts open under locality and authority which are in bold type. References indicate: (a) type of work, (b) address for application. Where no town is stated in the

## CONTRACT • NEWS •

### OPEN

#### BUILDING

**ALNWICK U.C.** (a) 64 houses at Greensfield Estate. (b) Council's Surveyor, The Council House, Wagonway Road. (c) 2gns. (e) August 25.

**ALTRINCHAM B.C.** (a) (1) 16 bungalows at Broomwood Gardens, Broomwood Estate, and (2) 9 bungalows at junction of St. Andrew's Avenue and Bridge Grove, Timperley, for aged persons. (b) Borough Surveyor, Town Hall. (c) (1) 3gns, (2) 2gns, to Borough Treasurer.

**BEDFORD B.C.** (a) Public Conveniences at St. Paul's Square. (b) Borough Engineer, Newnham House, Horne Lane. (c) 2gns.

**BERKSHIRE C.C.** (a) 2 Police houses at Wootton Road, Abingdon. (b) County Architect, Wilton House, Parkside Road, Reading. (c) 2gns. (e) August 16.

**BIRMINGHAM C.C.** (a) Police station and police flats at Bradford Street. (b) City Architect, Civic Centre. (c) 2gns. (d) August 8. (e) August 31.

**BIRMINGHAM C.C.** (a) Contract 504, 18 shops, 17 flats and office accommodation at The Fordrough, West Heath. (b) City Architect, Civic Centre. (c) 2gns. (d) August 6. (e) September 5.

**BIRMINGHAM C.C.** (a) Contract T.50/5. Tenants' Room on a site at Field Lane, Bartley Green Estate. (b) City Architect, Civic Centre. (c) 2gns. (d) August 6. (e) September 5.

**CROYDON B.C.** (a) Second instalment of a new technical college. (b) Messrs. Robert Atkinson and Partners, 13, Manchester Square, W.1. (c) £1. (e) August 26.

**CUMBERLAND C.C.** (a) (1) Pair of police houses at Kells, Whitehaven; (2) Police inspector's house at Camp Road, Maryport; and (3) Police station at Raven-glass. (b) County Architect, 15, Portland Square, Carlisle, with details of contracts carried out. (d) August 10.

**CUMBERLAND C.C.** (a) (1) Clinic at Valley Estate, Whitehaven; (2) works at Richmond School, Irish Street, Whitehaven; and (3) alterations to The Croft, Kirksanton, nr. Millom, to form an aged persons' home. (b) County Architect, 15 Portland Square, Carlisle. (e) (1) August 18, (2) August 12, and (3) August 31.

**DAGENHAM B.C.** (a) 52 flats and 22 garages at Eagle Avenue. (b) Borough Engineer, Civic Centre. (c) 2gns. (e) August 20.

**ESSEX C.C.** (a) Fire station at The Ridgeway, Chingford. (b) County Architect, County Hall, Chelmsford. (d) August 6. Approx. cost, £38,000.

**ESSEX C.C.** (a) Health clinic at Three Arch Bridge Estate, Brentwood. (b) County Architect, County Hall, Chelmsford. (d) August 6. Approx. cost, £7,300.

address it is the same as the locality given in the heading, (c) deposit, (d) last date for application, (e) last date and time for submission of tenders. Full details of contracts marked ★ are given in the advertisement section.

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**ESSEX C.C.** (a) Internal renovations at (1) Fairmead Secondary School, Loughton, and (2) St. Nicholas Primary School, Loughton. (b) County Architect, County Hall, Chelmsford. Approx. cost, (1) £4,500 and (2) £2,500.

**LONDON—CHINGFORD B.C.** (a) 12 flats at Old Church Road Estate, North End development. (b) Borough Engineer, Town Hall, E.4. (c) 2gns. (e) September 1.

**LONDON—HENDON B.C.** (a) alterations and additions at Nos. 154-158 Station Road. (b) Borough Engineer, Town Hall, N.W.4. (c) 2gns. (d) August 6. (e) August 31.

**LONDON—WANDSWORTH B.C.** (a) Three-storey block of 6 flats at Fairfield Street. (b) Town Clerk, Municipal Buildings, Wandsworth, S.W.18. (d) August 10, with details of experience, plant and staff available.

**N. IRELAND—ANTRIM COUNTY HEALTH COMMITTEE.** (a) Erection and completion of a welfare centre at Ballyclare, Co. Antrim. (b) Messrs. Thomas T. Houston and Company, 26, College Gardens, Belfast. (c) 3gns. (e) August 17.

**N. IRELAND—BELFAST.** (a) New wing extension to St. Dominic's High Schools, Falls Road. (b) W. H. McEvoy, 73, May Street. (c) 5gns by cheque. (e) August 12.

**N. IRELAND—GOVERNMENT OF NORTHERN IRELAND.** (a) Erection and completion of cattle and sheep pens, etc., at Tullyhommon, Pettigo, Co. Fermanagh. (b) Ministry of Finance (Room 103), Law Courts Buildings, May Street, Belfast. (e) August 16.

**N. IRELAND—KILLYLEAGH.** (a) Erection and completion of a manse at Killyleagh, for First Presbyterian Church Committee. (b) Messrs. Munce and Kennedy, 133, University Street, Belfast. (c) 5gns. (e) September 5.

**N. IRELAND—LONDONDERRY COUNTY EDUCATION COMMITTEE.** (a) Magherafelt central primary school. (b) County Education Architect, Whitehall Chambers, Coleraine. (c) £5. (e) August 24.

**N. IRELAND—PLUMBRIDGE (CO. TYRONE).** (a) External repairs and improvements and internal repairs at Glenrone Primary School, Plumbidge. (b) Messrs. F. M. Corr and W. H. D. McCormick, 7, Ferryquay Street, Derry. (c) 2gns. (e) August 17.

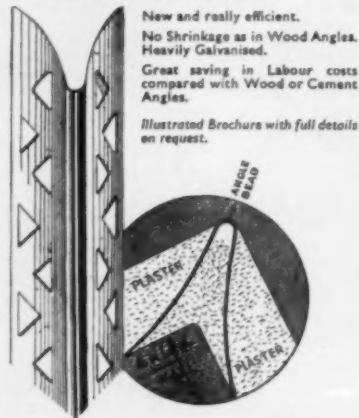
**NORTHAMPTON B.C.** (a) Conversion of "Barnfield," Harlestone Road, to form an aged persons' home. (b) Borough Architect, Guildhall. (c) 2gns. (d) August 10.

**NORTH RIDING C.C.** (a) Home for 40 aged persons at Thornaby-on-Tees. (b) County Architect, County Hall, Northallerton. (c) 2gns. (d) August 6.

**NOTTINGHAMSHIRE C.C.** (a) Phase 4 of extensions at Arnold Redhill Secondary School. (b) County Architect, County Hall, Trent Bridge. (c) 2gns. (d) August 10, by cheque.

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**OLDHAM B.C.** (a) 7 houses, 48 flats and 48 flats at Holts Estate. (b) Messrs. Cameron and Middleton, 21, Queen Street. (c) 2gns. (e) August 19.

**PONTYPRIDD.** (a) Erection and completion of a church at Poplar Road, Rhydyfelin. (b) H. W. David Burgess, 30, Mill Street. (c) 3gns.

**POOLE B.C.** (a) Erection of 12 pairs of houses and 7 pairs of houses at Alderney West Estate, off Ringwood Road (Contract AW/2). (b) Borough Engineer, Municipal Buildings. (c) 2gns. (e) August 23.

**PUDSEY B.C.** (a) Block of three-storey flats at Richardshaw Lane. (b) Borough Surveyor, Town Hall. (c) 2gns each trade. (e) August 27.

**SCOTLAND—WEST LOTHIAN C.C.** (a) Public Convenience at Uphall. Separate Trades. (b) County Architect, County Buildings, Linlithgow. (d) August 13.

**SOUTHAMPTON CORPORATION.** (a) Repair of War Damage, etc., to the Guildhall block at the Civic Centre. (b) Borough Architect, Civic Centre. (c) £3. (d) August 12. (e) September 8.

**SOUTHWELL R.C.** (a) 20 dwellings off Franklin Road, Lowdham, Notts. (b) Messrs. Wm. Saunders and Partners, 24, Castlegate, Newark-on-Trent. (c) 2gns. (e) August 19.

**WEST RIDING C.C.** (a) Conversion of ground floor rooms in Home No. 5, County Children's Homes, Carleton, Pontefract, into changing room and toilet. (b) County Architect, "Bishopgarth," Westfield Road, Wakefield. (e) August 22.

## PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work, (2) site, (3) name of contractor and address, (4) amount of tender or estimate. †denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

**HAMPSTEAD B.C.** (1) 38 maisonnettes, 5 flats. (2) Springfield Lane. (3) Rowley Bros., Ltd., Tower Works, Dunloe Road, Tottenham, N.17. (4) £115,558. (1) 80 flats. (2) Fellows Road. (3) Wilson Lovatt & Sons, Ltd., 16, Grosvenor Crescent, London, S.W.1. (4) £188,454.

**LONDON, E.C.** (1) Additions. (2) St. Bartholomew's Hospital, E.C.1. (3) J. Carmichael (Contractors), Ltd., 331, Trinity Road, London, S.W.18. (4) About £400,000.

**NOTTINGHAMSHIRE C.C.** (1) Secondary school. (2) Bulwell. (3) W. J. Simms, Sons & Cooke, Ltd., Hadyn Road, Sherwood, Notts. (4) £179,094.

**NORTHAMPTON B.C.** (1) 66 flats. (2) King's Heath. (3) Drabble Construction Co., Ltd., Wellingborough. (4) £93,787.

**CHATHAM B.C.** (1) Shops, flats, etc. (2) Weeds Wood Estate. (3) Peak Construction Co., Ltd., Strood, Rochester, Kent. (4) £44,480.

**OXFORD.** (1) Dining hall, library and common rooms. (2) Nuffield College. (3) Benfield & Loxley (Oxford), Ltd., 106, Bullingdon Road, Oxford.

**RAMSGATE.** (1) Extensions. (2) St. Lawrence College. (3) W. W. Martin (Thanet), Ltd., Dane Road Park, Ramsgate.

**EXETER.** (1) Erection of St. James' Church. (2) Prince Charles Road. (3) Soper & Ayres, Magdalene Street, Exeter.

**GREAT AYRTON, YORKS.** (1) Additions. (2) Friends School. (3) F. Shepherd & Sons, Blue Bridge Lane, York. (4) £30,000.

**CROYDON.** (1) Premises for Swears & Wells, Ltd. (3) Marshall, Andrew & Co., Ltd., 31, Queen Anne's Gate, London, S.W.1. (4) £40,000.

**NATIONAL COAL BOARD.** (1) Three-storey block of offices. (2) Longbenton, Northumberland. (3) Holland & Hannen and Cubitts, Ltd., Howden-on-Tyne.

**HERTFORD B.C.** (1) 40 houses. (2) Sele Farm. (3) E. S. Moss, Ltd., 159, Brent Street, Hendon, N.W.4. (4) £56,399.

**BIRMINGHAM.** (1) Factory for Greville Tinnors, Ltd. (2) Venetia Road. (3) D. Charles & Co., Ltd., 220, Cooksey Road, Small Heath, Birmingham.

**DEAL B.C.** (1) 42 houses. (2) St. Martin's Road. (3) D. C. Heard & Co., Ltd., Ramsgate, Kent. (4) £57,399.

**FULHAM B.C.** (1) 38 flats. (2) Alice Gilliart Court. (3) John Lacing & Son, Ltd., London, N.W.7. (4) £74,850.

**MAIDENHEAD.** (1) 21 flats, etc., for Watts Settlement Trust. (2) Marlow Road. (3) J. M. Jones & Sons, Ltd., Maidenhead. (4) £44,537.

**COVENTRY CORPORATION.** (1) Erection of a Civic Theatre. (2) Corporation Street. (3) Geo. Wimpey and Co., Ltd., 26, Hammersmith Grove, London, W.6. (4) £205,420.

**WEST BROMWICH B.C.** (1) 204 multi-storey flats. (2) Yew Tree Estate. (3) Geo. Wimpey and Co., Ltd., 26, Hammersmith Grove, London, W.6. (4) £558,254.

**WAR DEPARTMENT.** (1) Modernization. (2) Tidworth Barracks. (3) A. Roberts and Co., Ltd., 79, Eccleston Square, London, S.W.1. (4) About £800,000.

**LONDON, W.1.** (1) Ten-storey office block. (2) Wigmore, Duke and Orchard Streets, W.1. (3) Higgs and Hill, Ltd., Crown Works, South Lambeth Road, London, S.W.8. (4) About £2,000,000.

**BOURNEMOUTH CORPORATION.** (1) Secondary school. (2) Winton and Moordown. (3) James Drewitt and Son, Ltd., 127, Seabourne Road, Bournemouth. (4) £200,845.

**SPENNYMOOR U.D.C.** (1) 65 houses. (2) Middlestone Moor. (3) Bell and Ridley, Ltd., North Road, Durham.

**SUNDERLAND CORPORATION.** (1) 160 houses. (2) Farrington Estate. (3) L. W. Evans, Ltd., Norfolk Street, Sunderland (51 houses), J. Prentice, Leeds Street, Sunderland (65), and J. Stewart, Sunderland (44).

**BIRMINGHAM CORPORATION.** (1) 132 dwellings, etc. (2) Gorsy Road. (3) Direct Labour. (1) 55 dwellings. (2) Holly Bush Estate. (3) Direct Labour.

**LONDON, W.1.** (1) Large block of shops, offices, etc. for Marcus Investments. (2) Baker Street, W.1. (3) Sir Robert McAlpine and Sons, Ltd., 80, Park Lane, London, W.1.

**SWANSEA CORPORATION.** (1) First stage of repair depot. (2) Pipe House Wharf. (3) Rush and Tompkins, Ltd., 109, Station Road, Sidcup, Kent. (4) £68,542.

**MIDDLESEX C.C.** (1) Further stage of Technical College. (2) Harrow. (3) Prestige and Co., Ltd., Grosvenor Road, London, S.W.1. (4) £243,791.

**PORTSMOUTH CORPORATION.** (1) School for Kingston School for Girls. (3) Portsmouth, Gosport and District Builders' Guild, 48, George Street, Portsmouth. (4) £105,821.

**LUTON CORPORATION.** (1) 134 houses, 16 flats. (2) Runfold Estate. (3) Geo. Wimpey and Co., Ltd., Hammersmith, W.6. (4) £194,976.

**ESSEX C.C.** (1) Superstructure of Dovercourt School. (2) Harwich. (3) C. H. Chaston and Co., Ltd., Main Road, Holland-on-Sea, Essex. (4) £178,085.

**ELSTREE R.D.C.** (1) 72 houses, 24 flats, etc. (2) Boreham Wood. (3) John Laing and Son, Ltd., London, N.W.7. (4) £147,383.

**WALLASEY B.C.** (1) 87 houses, 12 flats. (2) Leasowe. (3) John McGeoch and Sons, Ltd., Kirkby Trading Estate. (4) £139,916. (1) School. (2) Lingham. (3) John McGeoch and Sons, Ltd. (4) £80,582.

**NOTTINGHAMSHIRE C.C.** (1) Codrington primary school. (2) Newark. (3) Spooners (Hull), Ltd., of Hull.

**ESSEX.** (1) School, for Holy Cross R.C. School Managers. (2) Aveley. (3) Haines and Warwick, Ltd., Seven Kings, Essex. (4) £40,444.



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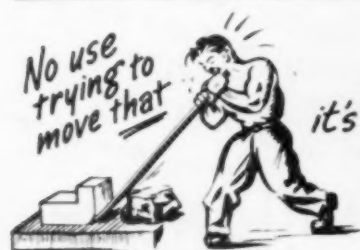
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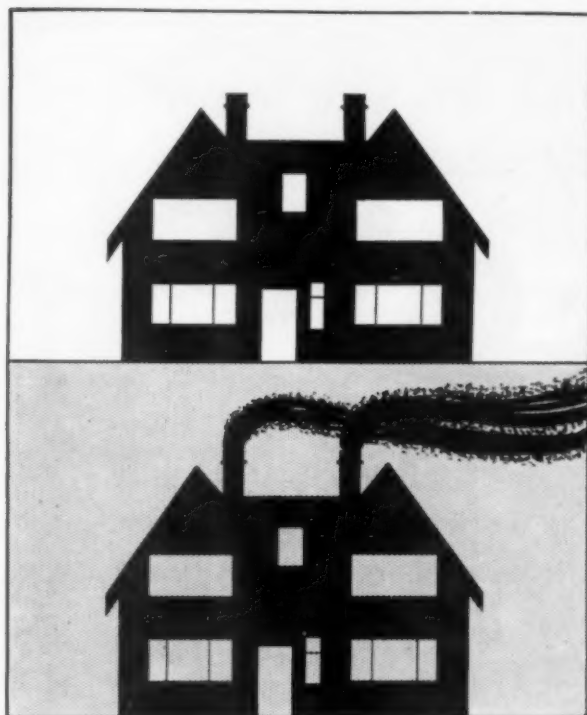
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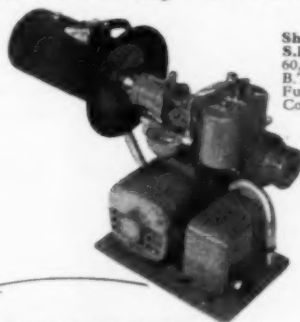




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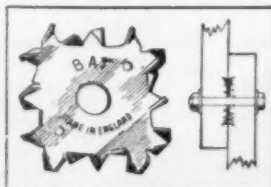
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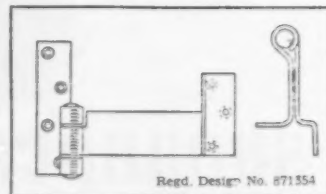
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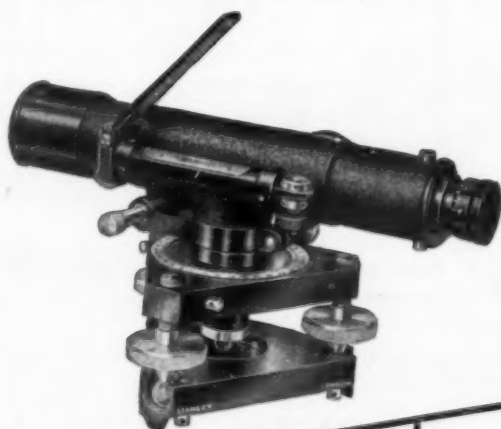
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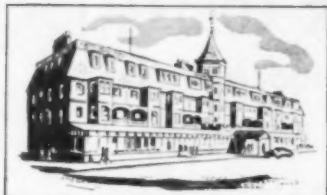
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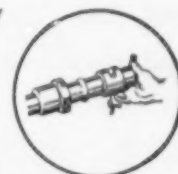
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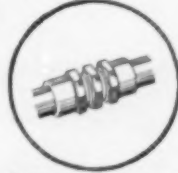
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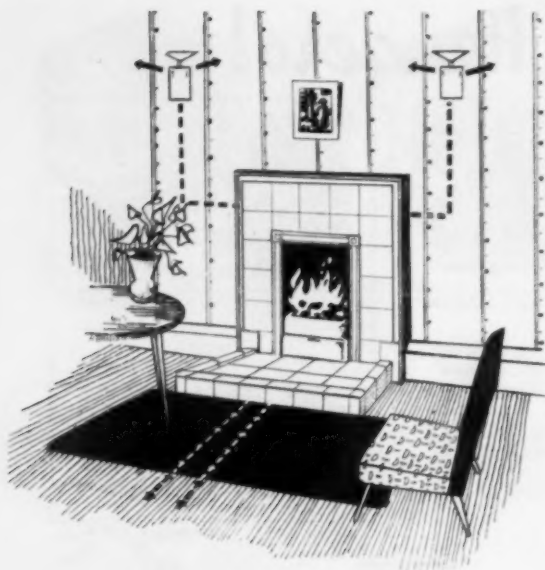
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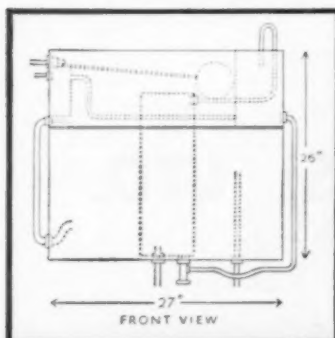
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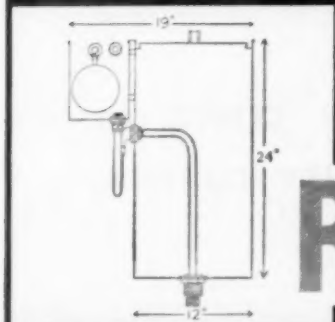
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Garage, Brixton.*

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ST. PAUL'S CRAY FOR THE KENT COUNTY COUNCIL.

*(See illustrated article in this issue)*

ADDiscombe 3138/3139

# OFFICIAL ANNOUNCEMENTS

## APPOINTMENTS • CONTRACTS • TENDERS

Rate 1/6 per line, minimum 3/-

Close for press 1st post Monday for following Thursday Issue

### APPOINTMENTS

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc. If the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is exempted from the provisions of The Notification of Vacancies Order, 1952.

#### OFFICE OF THE RECEIVER FOR THE METROPOLITAN POLICE DISTRICT.

APPLICATIONS are invited for unestablished appointments as Architectural Assistants (New Works and Maintenance Branches) and also as Sanitary Engineering Assistants in the Chief Architect and Surveyor's Department.

Rates of Pay £442 10s (age 21) by annual increases to £695 (men) and £442 10s by annual increases to £615 (women). Overtime of approximately £24 per annum is also payable while a 45½-hour week is worked.

Conditioned hours 44 per week. Annual Leave 24 days.

Application forms from the Chief Clerk, Architect and Surveyor's Department, New Scotland Yard, S.W.1, stating for which drawing office application is made. [0958]

#### HARLOW DEVELOPMENT CORPORATION.

Architect Planner: Frederick Gibberd, C.B.E., F.R.I.B.A., M.T.P.I.  
Executive Architect: Victor Hamnett, B.Sc., A.R.I.B.A., A.R.I.C.S., A.M.T.P.I.

ASSISTANT ARCHITECTS, GRADE V(b), £565 x £30—£715 per annum for New Town work. Minimum standard Intermediate R.I.B.A. Superannuation. Accommodation available in due course in suitable cases.

Detailed applications with names of two referees to General Manager, "Terlings," Harlow, Essex, within 14 days. [1361]

ARCHITECTURAL Assistants required by the East African Posts and Telecommunications Administration on probation for two years for the permanent and pensionable establishment. Normal tour three years. Salary scale (including 10% temporary Cost of Living Allowance) £1,003 rising to £1,280 a year. Commencing salary according to age and experience. Outfit allowance £30. Free passages. Liberal leave on full salary. Candidates, under 35 years, should be student members of R.I.B.A., or have reached an equivalent standard in their studies. They must be capable of preparing, under supervision, all working and detail drawings for large buildings, including Telephone Exchanges, Post Offices and Staff Houses. Possession of the building construction certificate of any recognised School or Board of Education will be an advantage. Write to the Crown Agents, 4, Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M2B/40782/AF. [1373]

AIR MINISTRY Works Designs Branch require in London and Provinces (with liability for overseas service) ARCHITECTURAL ASSISTANTS experienced in planning/preparation of working drawings and details for permanent and semi-permanent buildings. Salaries up to £810 p.a. (men) and £706 (women). Starting pay based on age, qual. and experience. Paid overtime. Posts non-pensionable with long-term possibilities. Natural born British subjects only.—Write, stating age, qual., employment details, including type of work done, to any Employment Exchange, quoting Order No. BOROUGH 2303. [1379]

#### ARCHITECT'S DEPARTMENT.

VACANCIES for ARCHITECTS, Grade III (up to £945), and ARCHITECTURAL ASSISTANTS (up to £783), for widespread construction programme which includes houses, blocks of flats, schools of all types, and various public and industrial buildings.—Application forms and particulars from Architect (AR/EK/A/3), The County Hall, S.E.1. (1189.) [0006]

REQUIRED, quantity surveyor, able to prepare bills of quantities on own responsibility, at busy South Midlands office, within 30 miles of London; living accommodation provided; state salary required.—Box 5553, c/o A. & B.N. [1383]

### APPOINTMENTS—contd.

#### KINGSWOOD URBAN DISTRICT COUNCIL.

APPLICATIONS are invited for the following appointments in the department of the Engineer and Surveyor:—

##### 1. Architectural Assistant.

A.P.T. Grade III (£600-£725). Applicants must have passed the Intermediate Examination of the R.I.B.A. and preference will be given to those who have reached an advanced stage in the preparation for the Final Examination. Applicants should have had considerable municipal experience in the preparation of sketch schemes and working drawings for houses, flats, public buildings and general architectural work.

##### 2. Assistant Engineer.

A.P.T. Grade III (£600-£725). Applicants must have passed the Intermediate Examination of the Institution of Municipal Engineers or Institution of Civil Engineers and preference will be given to those who have reached an advanced stage in the completion of the Final Examination. Applicants should have had considerable experience in the preparation of road and sewerage schemes particularly in the development of extensive housing estates, and in general municipal engineering works.

##### 3. Assistant Engineer/Architect.

A.P.T. Grade III (£600-£725). Applicants should possess the qualifications and experience described in Vacancy No. 2 and in addition should have had experience in architectural works in connection with the development of housing estates. Possession of the Intermediate examination of the R.I.B.A. or Royal Institution of Chartered Surveyors (Building Sub-Division) would be an added advantage.

The posts will be in respect of the Council's Capital Programme and subject to the National Scheme of Conditions of Service and the successful applicant will be required to pass a medical examination.

Housing accommodation will be provided for the successful applicant, if necessary.

Further details of the appointments setting out information to be supplied by applicants may be obtained from W. E. H. Rendle, M.I.Mun.E., A.R.I.C.S., M.Inst.H.E., Engineer and Surveyor, Council Offices, Kingswood, Bristol. Applicants should state the vacancy for which they are applying.

Applications with names and addresses of three referees should be sent to the undersigned not later than August 20th, 1955.

I. H. DEARNLEY,

Clerk of the Council.

Council Offices,  
Kingswood,  
Bristol.

[1385]

#### GEORGE WIMPEY & Co., Ltd.

The Architects' Department seek Architectural Staff enthusiastic to apply their knowledge to new construction techniques covering Houses, Multi-Storey Flats, Offices, Schools and Industrial Buildings for contracts in the U.K. and Overseas.

Appointments range from Architects to Draughtsmen with special interest to those of ability, recognising the value of the designer and technician as an integral part of the production team.

Appointments are on a permanent basis, 5 days a week at Head Office, Hammersmith.

Salaries will be according to qualifications and experience, and subject to satisfactory service, there is a Pension Scheme for those wishing to make a career with the firm.

Applicants should write giving brief particulars to E. V. Collins, A.R.I.B.A., Chief Architect, George Wimpey & Co., Ltd., 27, Hammersmith Grove, London, W.6. [1374]

ARCHITECTURAL Assistant required for building surveying department in Chartered Surveyor's office in Berkshire, must be quick and accurate draughtsman, experienced in all branches including specifications, supervision, measurement of builders' work and checking accounts, and capable of running department, very varied and interesting work.—Please reply with full particulars to Box 5554, c/o A. & B.N.

### APPOINTMENTS—contd.

#### COUNTY BOROUGH OF GRIMSBY.

BOROUGH ENGINEER & SURVEYOR'S DEPARTMENT.

##### SENIOR QUANTITY SURVEYOR.

APPLICATIONS are invited for the appointment of a Senior Quantity Surveyor on the permanent establishment of the above department. Salary Grade A.P.T. IV—£675-£825 per annum.

The appointment will be subject to the conditions of service of the National Joint Council, terminable by one month's notice on either side and to the provisions of the Local Government Superannuation Acts. The successful candidate will be required to pass a medical examination.

HOUSING ACCOMMODATION WILL BE MADE AVAILABLE TO THE SUCCESSFUL APPLICANT, IF MARRIED.

Applications stating age, whether married or single, qualifications and details of training and experience, together with copies of two recent testimonials, must be suitably endorsed and delivered to the under-signed not later than first post on Monday, August 29th, 1955.

J. V. OLDFIELD,

Borough Engineer & Surveyor.

Municipal Offices,  
Town Hall Square,  
GRIMSBY.

August, 1955.

[1388]

#### COUNTY BOROUGH OF GRIMSBY.

BOROUGH ENGINEER & SURVEYOR'S DEPARTMENT.

##### JUNIOR ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited for the appointment of a Junior Architectural Assistant in the Architectural Section of the above Department in accordance with present Conditions of Service and scale of salary of the National Joint Council for A.P.T. Grade II (salary £560-£640 per annum).

The appointment is terminable by one month's notice on either side and is subject to the provisions of the Local Government Superannuation Acts. The successful candidate will be required to pass a medical examination.

Applications stating age, whether married or single, qualifications and details of training and experience, together with copies of two recent testimonials, must be suitably endorsed and delivered to the under-signed not later than first post on Monday, August 29th, 1955.

J. V. OLDFIELD,

Borough Engineer & Surveyor.

Municipal Offices,  
Town Hall Square,  
GRIMSBY.

August, 1955.

[1387]

#### BOROUGH OF MARGATE.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

APPLICATIONS are invited for the appointment of Architectural Assistants on the following grades:—

(a) A.P.T. I (£500-£580).

(b) A.P.T. II (£560-£640).

(c) Special Grade (£650-£775).

dependent upon qualifications.

Applications, giving details of age, present salary, qualifications, and experience, and enclosing two recent references are to be received by the undersigned not later than Saturday, August 20th, 1955, and should be enclosed in envelopes bearing no name or mark indicating the identity of the sender, and endorsed "Architectural Assistant."

Canvassing will disqualify and candidates should disclose any relationship existing between themselves and any member or Chief Officer of the Council.

T. F. SIDNELL,

Town Clerk.

Town Clerk's Office,  
40, Grosvenor Place,  
Margate.

July 25th, 1955.

[1372]

## APPOINTMENTS—contd.

## FELLING ON TYNE.

## CLERK OF WORKS.

APPLICATIONS are invited for the appointment of a Clerk of Works to supervise the erection of a two-storey Distribution Depot, with rail and road access, at Felling on Tyne.

The duration of the contract will be one year and the salary £14 per week plus travelling expenses.

Applications, stating age, experience (particularly in reinforced concrete work), details of previous works supervised, together with the names and addresses of two persons to whom reference may be made, should be addressed to the Architects,

S. W. MILBURN & PARTNERS, F/A.R.I.B.A.,  
9, The Esplanade,  
Sunderland,  
Co. Durham.

not later than August 13th, 1955.

[1371]

ARCHITECTURAL and ENGINEERING DRAUGHTSMEN. The Civil Service Commissioners invite applications for a wide variety of permanent and pensionable posts in many different fields of Government work.

Age at least 20 on 1st June, 1955.

Candidates must possess O.N.C. or equivalent qualification, but for certain posts evidence of appropriate technical training and experience accepted in lieu.

Every candidate must have had appropriate training of not less than three years and some practical workshop or drawing office experience.

Starting salary (London) from £442 at age 21 up to £605 (women £592) at age 28 or over. Maximum of scale is £695 (women £626). Women's scales being improved under equal pay scheme. Salaries somewhat lower in provinces. Promotion prospects.

Further particulars and application forms from Civil Service Commission, Scientific Branch, 30, Old Burlington Street, London, W.1, quoting S68-69/55. Completed application forms must be returned by 30th September, 1955.

[1382]

B.B.C. requires for Building Department, London:

(a) SENIOR ASSISTANT (Architectural): must be registered architect with considerable experience in general planning and preparation of detailed drawings and specifications for office-type buildings, able to take charge of several contracts, age 30/45. Salary £1,220 (possibly higher if qualifications exceptional) to £1,600 max.

(b) ARCHITECTURAL ASSISTANTS, Class I: must be registered architects experienced in building surveys, general planning and preparation of details drawings and specifications for office-type buildings, age 30/45. Salary £975 (possibly higher if qualifications exceptional) to £1,280 max.

(c) ARCHITECTURAL ASSISTANTS, Class III: must be up to final R.I.B.A. standard with several years' design office experience. Salary £725 (possibly higher if qualifications exceptional) to £960 max.

(d) ARCHITECTURAL ASSISTANTS, Class IV: must have passed Inter. R.I.B.A. with at least two years' design office experience. Salary £620 (possibly higher if qualifications exceptional) to £830 max. Applying to Engineering Establishment Office, Broadcasting House, London, W.1, within five days quoting ref. E.246, A.B.N., stating clearly for which vacancy applying.

[1381]

## TENDERS

## FLINT BOROUGH COUNCIL.

## ERECTION OF HOUSES.

## THE WERN, BAGILLT.

TENDERS are invited for the erection of houses on the above Site. A contract will be let in the first instance for the erection of eighteen semi-detached three-bedroom type houses, but the successful contractor will, subject to satisfactory progress and Ministry consent, be given an opportunity to negotiate contracts for the remainder of the 42 houses.

Bills of Quantities may be obtained from, and the other documents inspected at, the office of the Borough Engineer and Surveyor, Municipal Offices, Earl Street, Flint, on payment of a returnable deposit of two guineas.

Tenders to be delivered to the undersigned not later than 2.30 p.m., Monday, August 29, 1955.

The Council do not bind themselves to accept the lowest or any tender. D. H. DAVIES,  
Town Hall, Flint, Town Clerk.

July 25, 1955.

[1378]

## MISCELLANEOUS SECTION

RATE: 1/6d. per line, minimum 3/-, average line 6 words. Each paragraph charged separately.

PRESS DAY Monday. Remittances payable to Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

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## ARCHITECTURAL APPOINTMENTS VACANT

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-50 inclusive, unless he or she or the employer is exempted from the provisions of The Notification of Vacancies Order, 1952.

## THE CROFT GRANITE, BRICK &amp; CONCRETE CO., LTD.

Croft, Nr. Leicester.

have a vacancy for an

ARCHITECT or ARCHITECT'S ASSISTANT.

Inter R.I.B.A. Standard.

Apply in writing, stating age, experience, etc., and salary required, to The Managing Director.

[1386]

RAMSEY, MURRAY & WHITE have vacancy for—

ARCHITECTURAL ASSISTANT, about intermediate standard, preferably with office experience.

Salary according to qualifications.—Apply 32, Wignore St., London, W.1, or Telephone Welbeck 1409.

[0984]

ASSISTANT (male) required, near Final standard. Previous office experience essential.—Apply for appointment to Walters & Kerr Bate, 14, Gray's Inn Sq., London, W.C.1. Holborn 9850.

[1357]

ASSISTANT required in busy practice in West End, in early twenties, about intermediate R.I.B.A. standard; excellent opportunities for gaining all round experience.—Box 3851, c/o A. & B.N.

[0636]

QUALIFIED Architect required who combines a knowledge of construction with a high standard of draughtsmanship, to co-operate on industrial developments and other building projects. Box 5294, c/o A. & B.N.

[1338]

ARCHITECTURAL Draughtsmen of intermediate R.I.B.A. standard urgently required for work at Head Office. Reply giving details of experience to Sir Alfred McAlpine & Son, Ltd., The Oaks, Hooton, Cheshire.

[1334]

ARCHITECTURAL Assistant urgently required, intermediate stage or above and with practical experience particularly in traditional domestic and other work.—Please write stating age, experience and salary required to Allyn & Mansel, 1a, Berners Street, London, W.1.

[0004]

ARCHITECT'S ASSISTANT required for the London office of a firm of Architects with interests throughout the country, must be of Intermediate to Final R.I.B.A. standard. Superannuation scheme.—Apply in writing to Messrs. Cotton, Ballard & Blow, 133a, Wembley Park Drive, Wembley, Middlesex.

[0007]

ARCHITECTS' Assistants required (one Senior and one Junior) for London office. Some experience in industrial and hospital buildings desirable but not essential. 5-day week, good prospects and scope for suitable applicants.—Apply stating age, experience and salary required to Box 5428, c/o A. & B.N.

[1358]

ARCHITECTURAL Draughtsman required by Industrial Development Company, able to prepare drawings and take off quantities. Permanent position and good salary.—Apply, Managing Director, Ronald Lyon (Estates), Co., Ltd., Hertham, Surrey. Telephone Walton-on-Thames 4747/5313.

[1375]

QUALIFIED ASSISTANT, 25-32, with some practical design and structural experience, preferably also in exhibition work: good, quick draughtsmanship and perspectives: salary by arrangement.—Apply by letter to S. P. Jordan, A.R.I.B.A., M.S.I.A., Dip.T.P., 11, King's Road, Sloane Square, S.W.3.

[1376]

## SITUATIONS VACANT

CONSULTING engineers require structural detailers with knowledge of steelwork and building construction; O.N.C. standard.—Apply Sir Bruce White, Wolfe Barry & Partners, 1, Lygon Place, S.W.1. Sloane 0431.

[1386]

BUILDING draughtsman for engineers office of a large factory in the Midlands, applicants should be conversant with the design of structures and be able to undertake surveys and prepare minor building schemes under supervision.—Write giving particulars of experience, qualifications and salary required to Box 5412, c/o A. & B.N.

[1354]

## SERVICES OFFERED

A.M.I.E.E., experienced in the preparation of electrical schemes for offices, hospitals and industrial sites, is available for private work in London area.—Box 5546, c/o A. & B.N.

[1377]

FRENCH Polishing Contractors. All classes, shopfittings, furniture, etc. Competent workmen. Apply J. B. Howes, 41, Clifton Road, Hornsey, N.8. Mou. 5156. Fin. 3049 (evenings).

[1341]

GOOD lettering is essential for commemorative wall tablets, foundation stones, etc. Designs prepared and estimates given for the finished work in any suitable material. Renowned as a centre for lettering since 1934. Sculptured Memorials, 67 Ebury Street, S.W.1. Sloane 6549.

[0236]

ARCHITECTS, Surveyors and Contractors.—Our drawing office service is always available for the preparation of plans, designs, sketches, tracings and prints of houses, bungalows, stores, shops, structural alterations, furniture, interior decorations, signs and landscape gardens. Surveys, with photography at any distance. Materials supplied, charges moderate, monthly accounts, strict privacy guaranteed. Quotations if required.—Allerton Studios, Designers and Draughtsmen, 14, Macey Avenue, S.E.27. Gip. 3782.

[0141]

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APPLY to: Baillie, Brind & Co., Ltd., Prudential Chambers, Banbury, Oxon.

[N/C0082]

ALL hardwood mouldings, plain and embossed, embossed ornaments and dowels; send for catalogue and to-day's lowest trade prices.—Darve's Moulding Mills, Ltd., 60, Pownall Road, Dalston, E.8. Clissold 1543/4.

[0142]

JOINTLESS composition flooring in attractive colour range—quotations free.—Full particulars from the Liotex Asbestos Flooring Co., Ltd., 3, Corbetts Passage, London, S.E.16 (Dept. A), Bermondsey 4341-2-3.

[0622]

RECONDITIONED ex-Army Huts & Manufactured Buildings. Timber, Asbestos, Nissen Type, Hall Type, etc. All sizes and prices. Write, call or telephone, Universal Supplier (Belvedere), Ltd., Crabtree Manorway, Belvedere, Kent. Tel. Erith 2948.

[0005]

## PRIVATE DRIVES &amp; ROADS

DRIVES, Forecourts, Roads, etc., resurfacing or new construction by Specialists. Tarmacadam, Tar-spraying Chippings, Shingle, etc. Estimates free.—Stanley Lucas (Slough), Ltd., Alexandra Rd., Slough 21279.

[0136]

## WORK REQUIRED

LETTERING.—Inscriptions in wood or stone, painted and gilded signs, heraldry, etc.—The Winchester Studio, 29, Winchester St., S.W.1.

[1302]

## CONTRACTS WANTED

CARPENTER and Joiner sub-contracts wanted for alterations, repairs and general woodwork.—G. Chamberlain & Sons, 43, Elmore St., London, N.1.

[1306]

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[1380]





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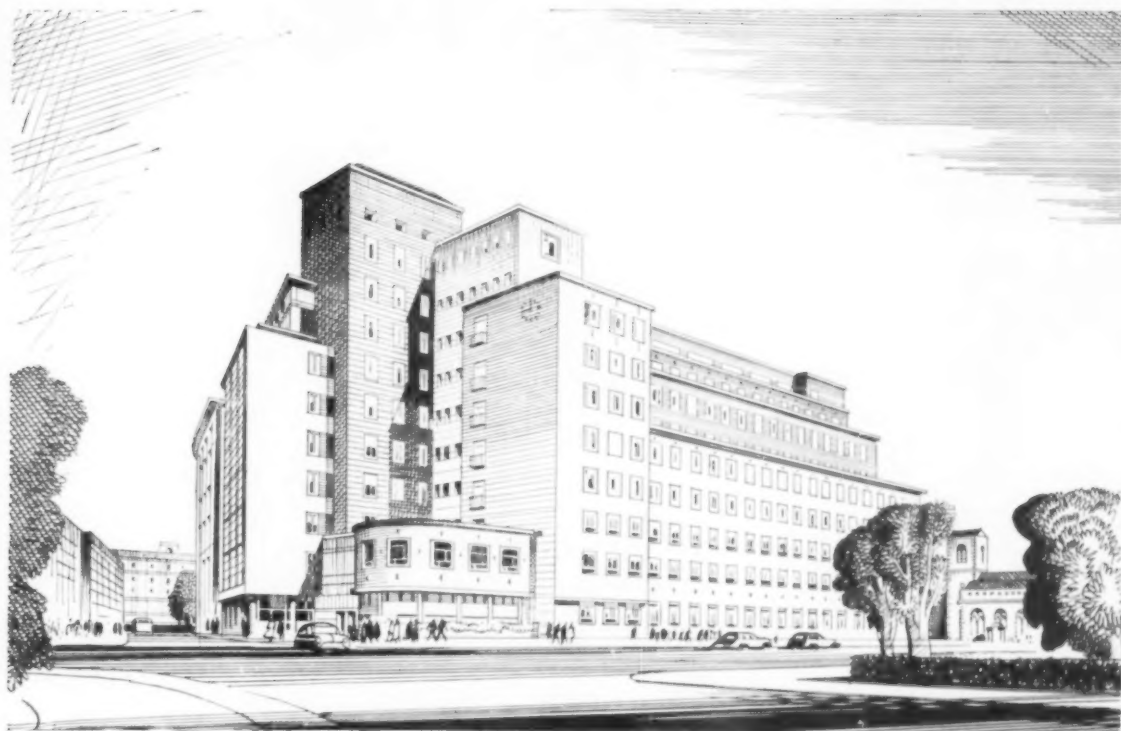
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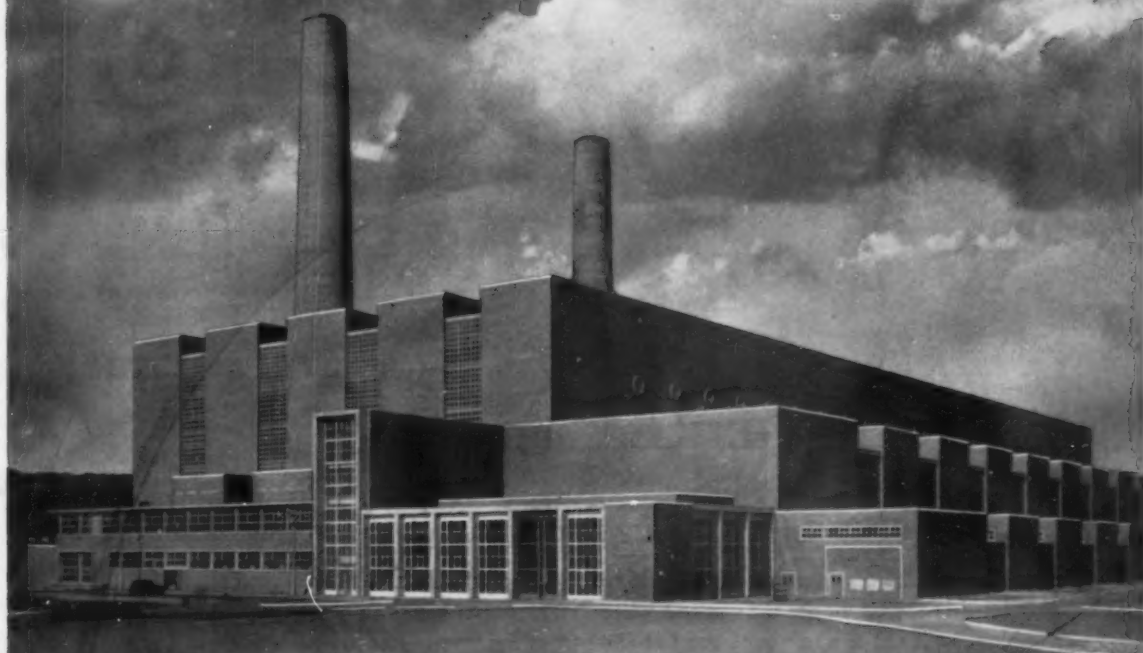
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